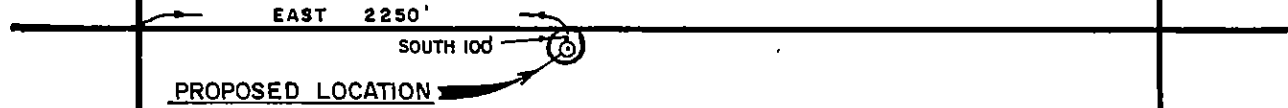


R 5 W

Miller Est.
20

T
15
S



Forest
★ 2

Sun-Enserch

★
Zinn Petr.

★ 7

● 3

30

29

28

Cherryville
★ 1-A

Miller Est.



I, J.W. Wingfield, Jr., hereby certify that the location of Sun-Enserch Miller Est. No. 1 is as follows: EAST 2250' and SOUTH 100' from the Northwest corner of Sec. 29, T15 S-R5W Cameron Parish, Louisiana.

LOUISIANA DEPT. OF CONSERVATION

167446

SUN - ENSERCH

PERMIT PLAT

James W. Wingfield, Jr.
REGISTERED LAND SURVEYOR NO. 4304
STATE OF LOUISIANA
JOHN E. CHANCE & ASSOCIATES, INC.

CAMERON PARISH, LOUISIANA

SCALE: 1"=1000'

FEB. 7, 1980

STATE OF LOUISIANA
DEPT. OF CONSERVATION
Att

PERMIT TO DRILL FOR MINERALS

PERMIT\$100.00
Multiple Zone Processing

Send To Lake Charles/22 Date February 20, 1980
Serial No. Ser # 167446 API # 1702321490
Parish Cameron 012 Field Crab Lake 3000

Operator Sun Oil Co.-Enserch Expl Inc 9999
Address P O Box 3308
City & State Lafayette LA 70505
Well Name Miller Est No. 1
Location Sec. 29, T15S, R5W
E 2250' & S 100' fr NW/C Sec. 29

PTD 18000
Zone or Reservoir of Proposed Completion Planulina
Applicable Department of Conservation Order 29B E 865 Series

[Signature]
COMMISSIONER

[Signature]
ISSUING AUTHORITY

151758



R. T. SUTTON
COMMISSIONER

OFFICE OF CONSERVATION
P.O. BOX 44275 - CAPITOL STATION
BATON ROUGE, LOUISIANA 70804

February 22, 1980

RE: Cameron Parish
Crab Lake Field
Miller Est #1
Serial #167446

Sun Oil Co - Enserch Expl Inc.
P.O. Box 3308
Lafayette, La 70502

Gentlemen:

We are issuing Permit to Drill for the above referenced well with the understanding that completion cannot be in any pool in which the location does not conform with the provisions of Statewide Order No. 29-E.

Also, this application is approved with the understanding there will be no completion in any reservoir which is not in compliance with the provisions of the Louisiana Office of Conservation Orders of the 865 Series, for the above captioned field and parish.

No allowable will be assigned this well unless in compliance with the above provisions.

Very truly yours,

R.T. SUTTON, COMMISSIONER
OFFICE OF CONSERVATION

BY _____

J.W. Hecker
Chief Engineer

cc: W.C. Wilhite
District Manager
Lake Charles

JWH/JFD/1b

29-E & Special Order

SUN - ENSERCH EXPLORATION
 MILLER ESTATE NO. 1
 CRAIG LAKE FIELD
 CAMERON PARISH, LOUISIANA
 MAGNETIC MULTISHOT

DATE OF SURVEY MARCH 22, 1960
 VERTICAL SECTION DIRECTION
 PAGE 2
 MS-2523

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG MIN	DOG-LEG SEV DEG/100	TOTAL COORDINATES		VERTICAL SFCTIDN	
						NORTH/SOUTH	EAST/WEST		
2432	2431.81	2431.81	0 55	S 32	0 0	0.24	15.47 S	8.93 W	16.40
2523	2522.80	2522.80	0 25	S 41	0 0	0.56	16.34 S	7.54 W	17.46
2615	2614.80	2614.80	0 40	S 75	0 0	0.43	16.73 S	8.27 W	18.22
2709	2708.79	2708.79	0 35	N 65	0 0	0.46	16.67 S	9.23 W	18.78
2802	2801.79	2801.79	0 20	S 80	0 0	0.39	16.52 S	9.93 W	19.10
2896	2895.79	2895.79	0 20	S 65	0 0	0.09	16.68 S	10.45 W	19.55
2988	2987.79	2987.79	0 40	N 86	0 0	0.44	16.76 S	11.22 W	20.09
3082	3081.78	3081.78	0 5	S 86	0 0	0.62	16.72 S	11.84 W	20.45
3175	3174.78	3174.78	0 15	S 9	0 0	0.29	16.93 S	11.87 W	20.63
3269	3268.77	3268.77	1 0	N 80	0 0	1.18	16.99 S	12.65 W	21.17
3362	3361.77	3361.77	0 5	N 83	0 0	0.99	16.84 S	13.51 W	21.59
3454	3453.77	3453.77	0 15	S 34	0 0	0.24	17.00 S	13.69 W	21.83
3508	3507.77	3507.77	0 15	S 34	0 0	0.00	17.19 S	13.82 W	22.06

** THE CALCULATIONS ARE BASED ON THE MINIMUM RADIUS OF CURVATURE METHOD **
 HORIZONTAL DISPLACEMENT = 22.06 FEET AT SOUTH 38 DEG. 48 MIN. WEST (TRUE)

167446

sperry-sun



P. O. Box 2201, Lafayette, Louisiana 70502 (318) 234-5171

J. A. Fouché
President

March 24, 1980

Mr. J. D. Lambert
SUN GAS COMPANY - ENSERCH CORPORATION
P. O. Box 3308
Lafayette, LA 70502

Fortuna Energy Corp.

RE: MS-2523
Miller Estate Well Number 1
Crab Lake Field
Cameron Parish,
Louisiana

Ser. # 167446

Dear Sir:

Enclosed please find six (6) copies of our Job Number, MS-2523, a Magnetic Multishot Survey of the above well run March 22, 1980, from an assumed vertical depth of 150 feet to a depth of 3,508 feet. The last picture shown at a depth of 3,508 feet is projected.

The original results are being held pending completion of the well. If we can be of further assistance to you, please feel free to contact us.

Sincerely,

Carl J. Chitty
District Manager

CJC:krt

sperry-sun



P. O. Box 2201, Lafayette, Louisiana 70502 (318) 234-5171

J. A. Fouché
President

May 5, 1980

Mr. J. D. Lambert
SUN - ENSERCH EXPLORATION
P. O. Box 3308
Lafayette, LA 70502

RE: MS-2759; MS-2523
Miller Estate Well Number 1
Crab Lake Field
Cameron Parish,
Louisiana

Dear Sir:

Enclosed please find six (6) copies of our Job Number, MS-2759, a Magnetic Multishot Survey of the above well run May 4, 1980, from a depth of 3,508 feet to a depth of 12,870 feet; and the results of MS-2523, run March 22, 1980, from an assumed vertical depth of 178 feet to a depth of 3,508 feet. The last picture shown at a depth of 12,870 feet is projected.

The original results are being held pending completion of the well. If we can be of further assistance to you, please feel free to contact us.

Sincerely,

Kurt A. Guidry

Kurt A. Guidry
District Supervisor

KAG:krt

SPERRY-SUN INCORPORATED
CRAB LAKE FIELD

PAGE

SUN - ENSERCH EXPLORATION
MILLER ESTATE WELL #1

MS2759
MAY 4, 1980

TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
0	N 0	0 E	0 0	0.00 N	0.00 E	0.00	0.00
178	N 51	0 E	0 10	0.15 N	0.20 E	-0.25	0.09
272	N 78	0 W	0 25	0.32 N	0.04 N	-0.11	0.57
370	N 36	0 E	0 20	0.62 N	0.22 W	-0.08	0.64
468	N 34	0 E	0 15	1.03 N	0.08 E	-0.51	0.09
561	N 77	0 W	0 10	1.23 N	0.06 E	-0.58	0.37
655	S 20	0 E	0 25	0.94 N	0.04 E	-0.44	0.56
748	S 22	0 E	0 30	0.25 N	0.31 E	-0.39	0.09
842	S 65	0 W	0 50	0.43 S	0.16 W	0.32	1.01
936	N 79	0 W	1 5	0.55 S	1.66 W	1.72	0.68
1029	S 68	0 W	0 50	0.64 S	3.15 W	3.11	0.64
1122	N 86	0 W	0 20	0.87 S	4.04 W	4.02	0.60
1216	S 51	0 W	0 30	1.11 S	4.63 W	4.65	0.36
1310	S 43	0 W	0 40	1.77 S	5.33 W	5.56	0.20
1404	S 66	0 W	0 15	2.25 S	5.89 W	6.27	0.48
1497	N 20	0 E	0 15	2.14 S	6.00 W	6.33	0.49
1589	S 25	0 E	1 5	2.74 S	5.57 W	6.19	1.39
1681	S 7	0 E	1 10	4.46 S	5.08 W	6.48	0.39
1775	S 23	0 E	1 10	6.29 S	4.59 W	6.81	0.35
1870	S 11	0 E	0 45	7.79 S	4.10 W	7.00	0.48
1962	S 4	0 W	0 55	9.12 S	4.03 W	7.50	0.30
2057	S 16	0 W	0 50	10.54 S	4.28 W	8.32	0.21
2151	S 6	0 W	0 25	11.54 S	4.50 W	8.95	0.46
2246	S 28	0 W	1 20	12.86 S	5.06 W	10.01	1.01
2339	S 42	0 W	0 45	14.26 S	5.97 W	11.44	0.68
2432	S 32	0 W	0 55	15.35 S	6.77 W	12.62	0.24
2523	S 41	0 W	0 25	16.21 S	7.38 W	13.53	0.56
2615	S 75	0 W	0 40	16.61 S	8.11 W	14.37	0.43
2709	N 65	0 W	0 35	16.54 S	9.07 W	15.21	0.46
2802	S 80	0 W	0 20	16.39 S	9.77 W	15.78	0.39
2896	S 65	0 W	0 20	16.55 S	10.29 W	16.31	0.09
2988	N 86	0 W	0 40	16.63 S	11.06 W	17.05	0.44
3082	S 26	0 W	0 5	16.60 S	11.68 W	17.59	0.62
3175	S 9	0 E	0 15	16.80 S	11.71 W	17.71	0.29
3269	N 80	0 W	1 0	16.86 S	12.49 W	18.44	1.18
3362	N 83	0 W	0 5	16.71 S	13.35 W	19.16	0.99
3454	S 34	0 W	0 15	16.87 S	13.53 W	19.39	0.24
3508	S 34	0 W	0 15	17.07 S	13.66 W	19.59	0.00
3572	S 45	0 W	0 35	17.41 S	13.97 W	20.02	0.53
3665	S 5	0 E	0 15	17.95 S	14.29 W	20.53	0.50

SPERRY-SUN INCORPORATED
CRAB LAKE FIELD

PAGE 2

SUN - ENSERCH EXPLORATION
MILLER ESTATE WELL #1

ME2759
MAY 4, 1980

TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
3758	S 6 0 W	0 30	3757.74	18.56 S	14.31 W	20.81	0.28
3851	S 40 0 W	0 30	3850.74	19.27 S	14.62 W	21.39	0.31
3944	S 32 0 W	1 10	3943.73	20.38 S	15.38 W	22.55	0.73
4038	S 45 0 W	1 0	4037.71	21.78 S	16.47 W	24.13	0.31
4130	S 37 0 W	0 45	4129.70	22.82 S	17.40 W	25.41	0.30
4223	S 67 0 W	0 55	4222.68	23.60 S	18.45 W	26.69	0.50
4317	S 10 0 W	0 35	4316.68	24.37 S	19.22 W	27.72	0.82
4410	S 65 0 W	0 30	4409.67	25.00 S	19.67 W	28.40	0.54
4504	S 25 0 W	0 45	4503.66	25.73 S	20.31 W	29.28	0.52
4595	S 55 0 W	0 50	4594.65	26.65 S	21.10 W	30.39	0.46
4687	S 58 0 W	0 50	4686.64	27.39 S	22.21 W	31.71	0.05
4781	S 47 0 W	0 45	4780.62	28.17 S	23.24 W	32.97	0.18
4875	S 23 0 W	0 35	4874.62	29.03 S	23.88 W	33.91	0.34
4969	S 68 0 W	1 0	4968.61	29.78 S	24.83 W	35.09	0.76
5062	S 55 0 W	0 45	5061.59	30.43 S	26.08 W	36.50	0.34
5155	S 49 0 W	0 45	5154.58	31.18 S	27.04 W	37.68	0.08
5248	S 0 0 E	0 30	5247.57	31.99 S	27.50 W	38.44	0.61
5341	S 37 0 E	0 20	5340.57	32.61 S	27.33 W	38.56	0.33
5435	S 30 0 W	0 20	5434.57	33.06 S	27.31 W	38.72	0.39
5528	S 47 0 W	1 40	5527.55	34.22 S	28.43 W	40.23	1.45
5621	S 47 0 W	1 10	5620.52	35.79 S	30.11 W	42.42	0.54
5716	S 67 0 W	1 5	5715.50	36.80 S	31.65 W	44.24	0.42
5808	S 40 0 W	0 10	5807.49	37.24 S	32.53 W	45.23	1.02
5902	S 81 0 W	0 35	5901.48	37.42 S	33.09 W	45.81	0.50
5997	S 83 0 W	0 30	5996.48	37.55 S	33.98 W	46.67	0.09
6090	S 78 0 W	0 45	6089.47	37.72 S	34.98 W	47.65	0.27
6182	S 67 0 W	1 0	6181.46	38.16 S	36.31 W	49.04	0.33
6273	S 65 0 W	1 0	6272.44	38.81 S	37.76 W	50.63	0.04
6367	S 80 0 W	0 45	6366.43	39.26 S	39.11 W	52.04	0.36
6461	S 69 0 W	1 30	6460.41	39.81 S	40.86 W	53.86	0.83
6553	S 74 0 W	1 30	6552.38	40.57 S	43.14 W	56.25	0.14
6648	S 67 0 W	1 20	6647.34	41.35 S	45.36 W	58.58	0.25
6741	S 75 0 W	1 20	6740.32	42.05 S	47.40 W	60.73	0.20
6835	S 83 0 W	1 10	6834.29	42.45 S	49.40 W	62.72	0.26
6930	N 83 0 W	0 40	6929.28	42.50 S	50.91 W	64.11	0.57
7023	N 83 0 W	0 35	7022.27	42.38 S	51.92 W	64.97	0.09
7117	N 66 0 W	0 45	7116.26	42.07 S	52.96 W	65.77	0.27
7211	S 83 0 W	0 40	7210.25	41.88 S	54.06 W	66.70	0.41
7304	S 80 0 W	0 50	7303.24	42.07 S	55.26 W	67.87	0.18
7398	S 85 0 W	1 0	7397.22	42.26 S	56.75 W	69.30	0.20

SPERRY-SUN INCORPORATED
CRAB LAKE FIELD

PAGE 2

SUN - ENSERCH EXPLORATION
MILLER ESTATE WELL #1

MS2759
MAY 4, 1990

TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
7492	N 48	0 W	0 45	7491.21	41.92 S	58.03 W	70.31 0.78
7587	N 68	0 W	1 0	7586.20	41.19 S	59.25 W	71.11 0.41
7680	S 91	0 W	1 0	7679.18	41.01 S	60.81 W	72.45 0.57
7772	N 80	0 W	0 40	7771.17	41.05 S	62.13 W	73.66 0.47
7864	N 57	0 W	0 40	7863.16	40.66 S	63.11 W	74.38 0.29
7959	N 57	0 W	0 15	7958.15	40.25 S	63.75 W	74.78 0.44
8053	N 77	0 W	0 30	8052.15	40.04 S	64.32 W	75.21 0.30
8146	N 69	0 W	1 10	8145.14	39.61 S	65.60 W	75.19 0.73
8240	N 81	0 W	1 15	8239.11	39.11 S	67.50 W	77.70 0.28
8333	N 75	0 W	0 55	8332.09	38.76 S	69.22 W	79.11 0.38
8425	N 65	0 W	0 50	8424.08	38.29 S	70.54 W	80.10 0.19
8519	N 80	0 W	0 30	8518.07	37.93 S	71.57 W	80.88 0.40
8613	N 64	0 W	1 0	8612.06	37.50 S	72.71 W	81.73 0.57
8707	N 77	0 W	1 0	8706.05	36.95 S	74.24 W	82.89 0.24
8801	S 55	0 W	0 50	8800.04	37.16 S	75.60 W	84.21 0.81
8896	S 67	0 W	1 10	8895.02	37.93 S	77.05 W	85.86 0.41
8990	N 89	0 W	0 50	8989.00	38.30 S	78.62 W	87.43 0.56
9084	S 55	0 W	0 40	9082.99	38.60 S	79.75 W	88.58 0.52
9178	S 60	0 W	0 45	9176.98	39.22 S	80.73 W	89.73 0.11
9272	S 78	0 W	0 35	9270.97	39.63 S	81.74 W	90.81 0.28
9366	N 75	0 W	0 15	9364.97	39.67 S	82.40 W	91.43 0.40
9460	S 62	0 W	0 40	9458.96	39.88 S	83.08 W	92.14 0.55
9551	S 89	0 W	0 35	9549.95	40.13 S	84.01 W	93.09 0.33
9644	S 82	0 W	0 35	9642.95	40.21 S	84.95 W	93.97 0.08
9735	N 76	0 W	0 30	9733.94	40.17 S	85.80 W	94.73 0.24
9827	N 65	0 W	0 5	9825.93	40.05 S	86.25 W	95.08 0.45
9919	S 25	0 W	0 30	9917.93	40.38 S	86.48 W	95.43 0.55
10010	N 40	0 W	0 15	10008.94	40.59 S	86.77 W	95.79 0.71
10102	S 63	0 E	0 15	10100.93	40.53 S	86.72 W	95.71 0.53
10195	N 40	0 E	0 15	10193.92	40.47 S	86.41 W	95.41 0.33
10289	S 86	0 W	0 20	10287.92	40.33 S	86.55 W	95.48 0.57
10383	N 56	0 E	0 20	10381.91	40.19 S	86.60 W	95.46 0.68
10475	S 50	0 E	0 10	10473.91	40.13 S	86.28 W	95.14 0.36
10570	S 30	0 E	0 10	10568.91	40.34 S	86.10 W	95.07 0.06
10664	N 80	0 E	0 15	10662.91	40.42 S	85.83 W	94.86 0.26
10758	N 40	0 E	0 20	10756.90	40.18 S	85.45 W	94.41 0.23
10852	N 72	0 E	0 20	10850.90	39.88 S	85.02 W	93.89 0.20
10945	N 72	0 E	0 20	10943.90	39.72 S	84.50 W	93.36 0.00
11039	S 20	0 W	0 20	11037.89	39.89 S	84.34 W	93.28 0.64
11133	S 10	0 W	0 15	11131.88	40.35 S	84.47 W	93.59 0.10

SPERRY-SUN INCORPORATED
CRAB LAKE FIELD

SUN - ENSERCH EXPLORATION
MILLER ESTATE WELL #1

MS2759
MAY 4, 1930

TOTAL DEPTH	DIRECTION DEG MIN	ANGLE DEG MIN	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
11226	N 72 0 W	0 20	11224.88	40.46 S	84.76 W	93.90	0.48
11320	S 5 0 E	0 20	11318.88	40.65 S	84.99 W	94.20	0.59
11414	S 22 0 E	0 25	11412.87	41.24 S	84.84 W	94.31	0.15
11506	N 77 0 W	0 5	11504.87	41.54 S	84.78 W	94.38	0.51
11598	N 15 0 E	0 15	11596.86	41.33 S	84.80 W	94.30	0.29
11692	S 40 0 W	0 5	11690.86	41.18 S	84.79 W	94.23	0.35
11786	S 3 0 W	0 20	11784.85	41.51 S	84.84 W	94.42	0.29
11880	N 45 0 E	0 15	11878.86	41.63 S	84.71 W	94.36	0.58
11971	S 57 0 W	0 25	11969.85	41.67 S	84.85 W	94.50	0.73
12064	S 48 0 W	0 25	12062.84	42.08 S	85.39 W	95.16	0.07
12158	N 47 0 W	0 25	12156.83	42.08 S	85.89 W	95.51	0.60
12250	N 43 0 W	0 30	12248.83	41.56 S	86.41 W	95.86	0.10
12345	N 72 0 W	0 30	12343.84	41.13 S	87.09 W	96.29	0.26
12439	S 67 0 E	0 15	12437.82	41.08 S	87.29 W	96.46	0.80
12533	S 15 0 E	0 5	12531.82	41.23 S	87.08 W	96.33	0.22
12626	S 32 0 W	0 15	12624.83	41.46 S	87.17 W	96.51	0.22
12720	N 35 0 E	0 20	12718.81	41.41 S	87.12 W	96.45	0.52
12814	N 32 0 E	0 30	12812.81	40.94 S	86.75 W	96.37	0.18
12870	N 32 0 E	0 30	12869.80	40.43 S	86.49 W	96.46	0.00

THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.
THE VERTICAL SECTION WAS COMPUTED ALONG S 64 57 W
A DECLINATION OF 5 0 EAST HAS BEEN APPLIED.

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE
DISPLACEMENT IS 95.46 FEET, IN THE DIRECTION OF S 64 57 W
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELLHEAD.
MS-2523; MS-2759

STATE OF LOUISIANA
OFFICE OF CONSERVATION

Inter Office

Date: 8/25/80

To: Baton Rouge Office
From: Lake Charles District
Attn: Joseph F. DeVall

Enclosed herewith please find application from Fortuna Energy Corporation
for permit to amended operator
their Miller Estate #1, Crab Lake Field
Cameron Parish, Louisiana. Zone onshore

Also enclosed please find:

Check No. 11628 in the amount of \$ 25.00

Well location plat
Well location certification

Form A.D.C.
Electric Log
Schematic diagram
(Dual) structure map if well does not comply with existing Orders
(Selective-Onshore) structure map showing reservoir limits
(Selective-Offshore) letter(s) of no objection from offset operators

Applicable Department of Conservation Order No. 29-B

Pending Hearing, Docket No. _____

Remarks & Recommendations:

Recommend approval. Routine.

FORMERLY: Sun Oil Co.-Enserch, Inc.

By W.C. Wilhite
District Manager

W.C. WILHITE

cc: Geological Oil & Gas Division
Prod. Audit (for Amended Permits only)

LT-1

Change

8007 Effective
yymm

AMENDMENT ACTION

- 009: PARISH
- 034: FIELD
- 035: OPERATOR
- 016: LSE-UN
- 016: UN-LSE
- 016: LSE-LSE
- 016: UN-UN
- 014: WELL NO.
- 521: LOCATION

167446 Serial No. LC Date August 29, 1980

CURRENT CODES

012 PARISH
3000 FIELD
1916 OPERATOR

FORMER CODES

9999

Cameron
Grab Lake
Fortuna Energy Corporation*
c/o Pet. Eng. Inc. Box 52588
Lafayette, LA 70505

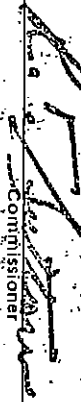
WELL NAME Miller Est.

LOCATION OF WELL: Sec. 29 T 15S R 5W Former Well No.

Location Same

*Formerly Sun Oil Co-Enserch Expl. Inc.

Applicable Department of Conservation Order 29B, 29E


Commissioner


Issuing Authority

WELL FILE COPY

No. 70665 A

STATE OF LOUISIANA
OFFICE OF CONSERVATION

WELL COMPLETION OR RECOMPLETION REPORT

29-E COMPLIANCE	YES	NO
29-E UNIT ATTACHED	YES	NO
D.O.C. USE ONLY		

DISTRICT LAKE CHARLES

CODE NUMBERS: <u>012</u> <u>3000</u> <u>1916</u>	DATE <u>DECEMBER 2, 1980</u>	<input checked="" type="checkbox"/> 1 - ON-SHORE <input type="checkbox"/> 2 - INTERMEDIATE <input type="checkbox"/> 3 - OFF-SHORE
PARISH <u>CAMERON</u>	FIELD <u>CRAB LAKE</u>	SEC. <u>29</u> T <u>15S</u> R <u>5W</u>
OPERATOR <u>FORTUNA ENERGY CORPORATION</u>	WELL NAME <u>MILLER ESTATE</u>	DOC ORDER NO. <u>29B</u>
RESERVOIR <u>ROB 11,350</u>	NO. <u>1</u> SERIAL NO. <u>167446</u>	COMPLETION DATE <u>11-26-80</u> TIME <u>8:00</u>
		<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM

IMPORTANT: IS A FORM MD-10-R-A BEING FILED WITH THIS REPORT? IF NO, EXPLAIN YES NO

REMARKS: _____

COMPLETION DATA:

* TYPE COMPLETION	PRIMARY PRODUCT	PRIMARY PRODUCT CHANGE?	PRODUCING METHOD	STATUS OF WELL
<input checked="" type="checkbox"/> 1 - ORIG. COMP. <input type="checkbox"/> 2 - RE-COMP.	<input checked="" type="checkbox"/> 1 - OIL <input type="checkbox"/> 2 - GAS <input type="checkbox"/> 3 - DRY GAS	<input checked="" type="checkbox"/> 1 - YES <input type="checkbox"/> 2 - NO	<input checked="" type="checkbox"/> F - FLOWING <input type="checkbox"/> GL - GAS LIFT <input type="checkbox"/> P - PUMPING	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 0 SEE REVERSE SIDE FOR CODE

* IF THIS IS A RE-COMPLETION SPECIFY: SAME RESERVOIR DIFFERENT RESERVOIR

<u>96</u> BOPD INITIAL PROD.	<u>76</u> MCF/DAY GAS VOLUME	<u>1050</u> PSIG FLOWING TUBING PRESSURE	<u>1200</u> PSIG SHUT-IN TUBING PRESSURE	<u>PCKR.</u> PSIG CASING PRESSURE
<u>8 5/64"</u> <input checked="" type="checkbox"/> 2 CHOKE SIZE	<u>24</u> BPD WATER PROD.	<u>20</u> % BS & W	<u>792</u> CF/BBL GOR	<u>34.8</u> API AT 60°F GRAVITY

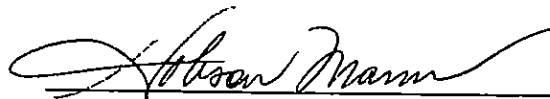
PERFORATIONS 11,347 to 11,351 TOTAL DEPTH _____

CLEARANCE & CERTIFICATION:

ADDITIONAL CLEARANCE IS REQUESTED FOR 81 BBLs. OF OIL PRODUCED ON DRILL-STEM OR OTHER PRODUCTION TEST: (SEE SECTION X PARAGRAPH B OF ORDER 29-B ON REVERSE SIDE).

CERTIFICATION

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


SIGNATURE
FORTUNA ENERGY CORPORATION
OPERATOR
PETROLEUM ENGINEER
TITLE

INSTRUCTIONS

THREE (3) COPIES TO BE FILED WITH THE DISTRICT OFFICE WITHIN THREE (3) DAYS OF DATE OF COMPLETION OR RECOMPLETION (AS PER ORDER 29-B, SECTION X, PARAGRAPH A, ARTICLE 1).

OFFICE OF CONSERVATION
STATE OF LOUISIANA

This side is to be used when requesting clearance for oil produced on Drill Stem Test or other Production Tests, made previous to official completion or recompletion.

SECTION X, PARAGRAPH B OF ORDER NO. 29-B

Allowables given to wells for oil produced on drill stem tests, production test and miscellaneous production of oil shall be in accordance with the following rule:

All operators are required within five days, to file three signed copies of the record of the daily production from the well, showing the number of hours the well produced and the interval of production --- as "from 8:00 A.M., August 5 to 3:00 P.M., August 8, 1952."

<u>Date of Test</u>	<u>TEST DATA</u> <u>Time of Test</u>	<u>Amount of Oil Produced</u>
<u>11-25-80</u>	<u>9:00 A.M. to 12:00 AM.</u>	<u>57 Barrels</u>
<u>11-26-80</u>	<u>12:00 A.M. to 8:00 AM.</u>	<u>24 Barrels</u>
<u> </u>	<u> M. to M.</u>	<u> Barrels</u>
<u> </u>	<u> M. to M.</u>	<u> Barrels</u>
<u> </u>	<u> M. to M.</u>	<u> Barrels</u>
<u>TOTAL</u>		<u>81 BARRELS</u>

The above total barrels of oil were produced from _____ Ft. to _____ Ft.

Remarks: _____

FORTUNA ENERGY CORPORATION

OPERATOR

(Signed) OPERATOR REPRESENTATIVE

CODES TO USE IN REPORTING STATUS OF WELL

- 10 Active
- 33 Inactive-Future Utility (does not include waiting on pipeline or market)
- 36 Inactive waiting on pipeline
- 37 Inactive waiting on market

DEC 9 1980
OFFICE OF CONSERVATION
STATE OF LOUISIANA

DATE 4-27-81

Mr. Henry Hoffman, Dist. Mgr.
POB 4097
1206 Tunnel Blvd.
Houma, LA 70360

Mr. Frank Perkins, Dist. Mgr.
122 St. John St. - Rm. 214
Monroe, LA 71201

Mr. Frank J. Fava, Jr., Dist. Mgr.
315 Audubon St.
POB 51285
Lafayette, LA 70505

Mr. W. J. Clark, Dist. Mgr.
325 Loyola Ave.
307 La. St. Off. Bldg.
New Orleans, LA 70112

Mr. Wm. C. Wilhite, Dist. Mgr.
3520 Patrick St.
Lake Charles, LA 70602

Mr. Joseph DeVall
960 Jordan St.
POB 3250
Shreveport, LA 71103

Ret SERIAL NO. 167446
PARISH Cameron
FIELD Crab Lake
OPERATOR Sun Oil Co. - Enserch Expl Inc.
WELL NAME Miller Est.
WELL NO. 1
SEC. 29 TWP 15A RGE 5W

Well history does not show casing, liner & tubing information.

Please furnish.

We do not have a copy of the well history in our files. Please furnish.

We do not have a copy of the original well history in our files. Please furnish.

Plug and abandon report does not indicate a surface plug. Please furnish data on surface plug.

At what depth is top of _____ liner?

Well history indicates this well was plugged and abandoned _____ . We do not have a copy of the P&A report in our files. Please furnish.

We cannot read the P&A report on our microfilm. Please let us have a copy from your files.

The data requested above is missing from our files. Please check your files & furnish us with this data. Send to: Mrs. Rosalie Miles - Baton Rouge Office. Thank you for your assistance.

29-E COMPLIANCE YES NO
 29-E UNIT ATTACHED YES NO

D.O.C. USE ONLY

STATE OF LOUISIANA
 OFFICE OF CONSERVATION

WELL COMPLETION OR RECOMPLETION REPORT

DISTRICT Lake Charles

CODE NUMBERS: | DATE March 29, 1982
012 | PARISH Cameron
3000 | FIELD Crab Lake
1916 | OPERATOR Fortuna Energy Corporation
37117 | WELL NAME Miller Estate NO. 1 SERIAL NO. 167446
 | RESERVOIR Rob 11,170' Sand 3/26/82 4:00
 | (CH-2 Sand) COMPLETION DATE TIME AM P

1 - ON-SHORE
 2 - INTERMEDIATE
 3 - OFF-SHORE
 SEC. 29 T 155 R 5W
 DOC ORDER NO. 29B

IMPORTANT: IS A FORM MD-10-R-A BEING FILED WITH THIS REPORT? IF NO, EXPLAIN YES NO

REMARKS: _____

COMPLETION DATA:

* TYPE COMPLETION	PRIMARY PRODUCT	PRIMARY PRODUCT CHANGE?	PRODUCING METHOD	STATUS OF WELL
<input type="checkbox"/> 1 - ORIG. COMP. <input checked="" type="checkbox"/> 2 - RE-COMP.	<input type="checkbox"/> 1 - OIL <input checked="" type="checkbox"/> 2 - GAS <input type="checkbox"/> 3 - DRY GAS	<input type="checkbox"/> 1 - YES <input checked="" type="checkbox"/> 2 - NO	<input type="checkbox"/> F - FLOWING <input checked="" type="checkbox"/> GL - GAS LIFT <input type="checkbox"/> P - PUMPING	<input type="checkbox"/> 3 <input type="checkbox"/> 6 SEE REVERSE SIDE FOR CODE

* IF THIS IS A RE-COMPLETION SPECIFY: SAME RESERVOIR DIFFERENT RESERVOIR

<u>29</u> BOPD INITIAL PROD.	<u>956</u> MCF/DAY GAS VOLUME	<u>3320</u> PSIG FLOWING TUBING PRESSURE	<u>3425</u> PSIG SHUT-IN TUBING PRESSURE	<u>Packer</u> PSIG CASING PRESSURE
<u>8</u> /64" <input checked="" type="checkbox"/> 2 CHOKE SIZE	<u>Trace</u> BPD WATER PROD.	<u>.2</u> % BS & W	<u>32,966</u> CF/BBL GOR	<u>51.6</u> GRAVITY API AT 60°F
PERFORATIONS <u>11,171-75</u>				TOTAL DEPTH <u>18,000</u>

CLEARANCE & CERTIFICATION:

ADDITIONAL CLEARANCE IS REQUESTED FOR 0 BBLs. OF OIL PRODUCED ON DRILL-STEM OR OTHER PRODUCTION TEST: (SEE SECTION X PARAGRAPH B OF ORDER 29-B ON REVERSE SIDE).

CERTIFICATION

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Hobson Mann

SIGNATURE
Fortuna Energy Corporation
 OPERATOR
Petroleum Engineer
 TITLE

INSTRUCTIONS

(THREE (3) COPIES TO BE FILED WITH THE DISTRICT OFFICE WITHIN THREE (3) DAYS OF DATE OF COMPLETION OR RECOMPLETION (AS PER ORDER 29-B, SECTION X, PARAGRAPH A, ARTICLE 1).)

OFFICE OF CONSERVATION
STATE OF LOUISIANA

This side is to be used when requesting clearance for oil produced on Drill Stem Test or other Production Tests, made previous to official completion or recompletion.

SECTION X, PARAGRAPH B OF ORDER NO. 29-B

Allowables given to wells for oil produced on drill stem tests, production test and miscellaneous production of oil shall be in accordance with the following rule:

All operators are required within five days, to file three signed copies of the record of the daily production from the well, showing the number of hours the well produced and the interval of production --- as "from 8:00 A.M., August 5 to 3:00 P.M., August 8, 1952."

<u>Date of Test</u>	<u>T E S T D A T A</u>		<u>Amount of Oil Produced</u> _____
	<u>Time of Test</u>		
_____	_____ M. to _____ M.	_____ Barrels	
_____	_____ M. to _____ M.	_____ Barrels	
_____	_____ M. to _____ M.	_____ Barrels	
_____	_____ M. to _____ M.	_____ Barrels	
_____	_____ M. to _____ M.	_____ Barrels	
	TOTAL _____	_____ BARRELS	

The above total barrels of oil were produced from _____ Ft. to _____ Ft.

Remarks: _____

OPERATOR

(Signed) OPERATOR REPRESENTATIVE

CODES TO USE IN REPORTING STATUS OF WELL

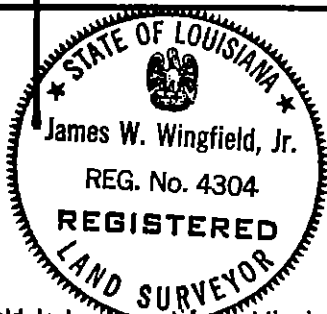
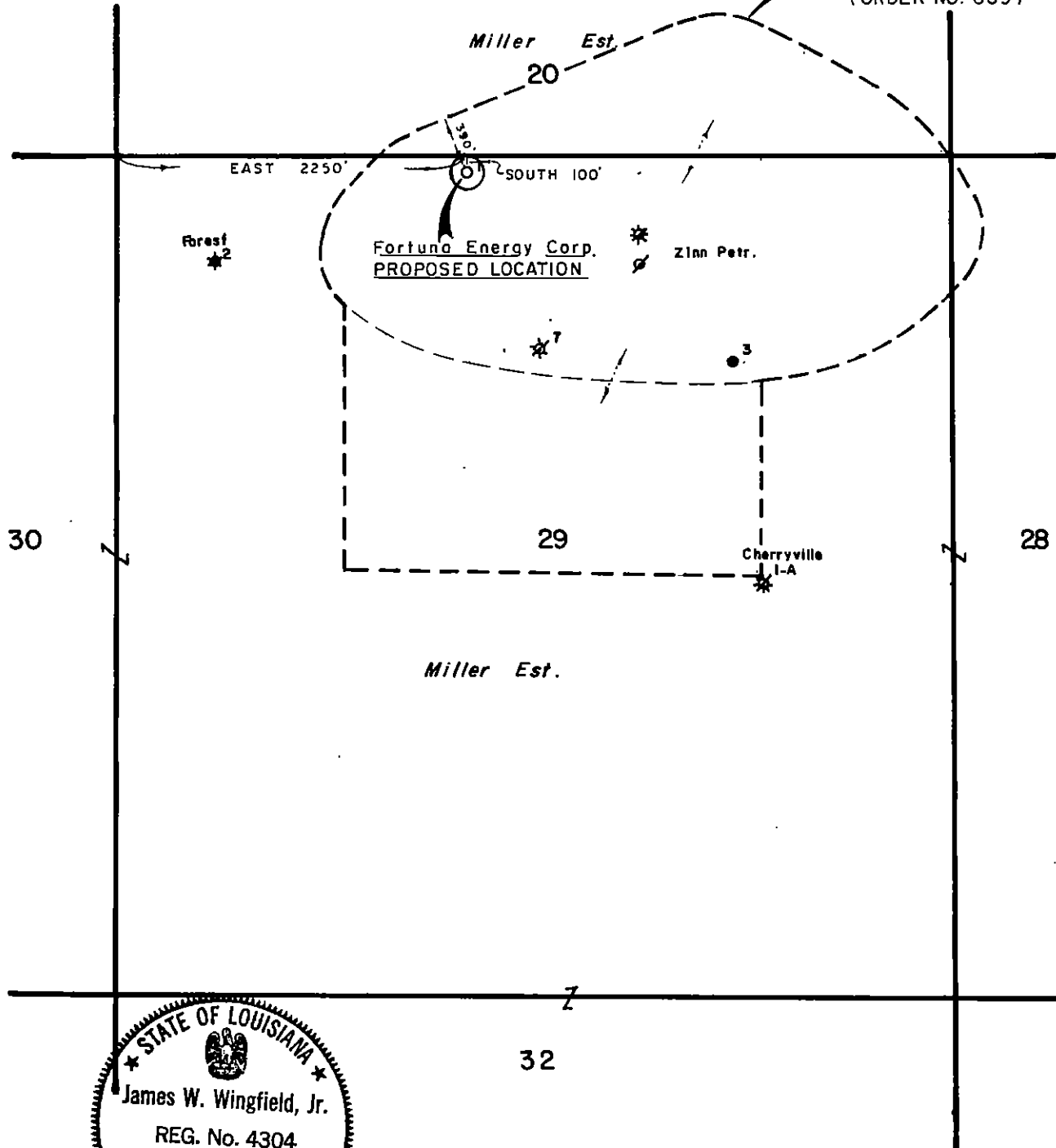
- 10 Active
- 33 Inactive-Future Utility (does not include waiting on pipeline or market)
- 36 Inactive waiting on pipeline
- 37 Inactive waiting on market

CONSERVATION DEPT
MAR 2 1952
LAKE CHARLES

R 5 W

MILLER NO. 13
11,250' SU A
(ORDER NO. 865)

T
15
S



I, J.W. Wingfield, Jr., hereby certify that the location of Fortuna Energy Corp. Miller Est. No. 1 is as follows: EAST 2250' and SOUTH 100' from the Northwest corner of Sec. 29, T15 S-R5W Cameron Parish, Louisiana.

James W. Wingfield Jr.
REGISTERED LAND SURVEYOR NO. 4304
STATE OF LOUISIANA
JOHN E. CHANCE & ASSOCIATES, INC.

LOUISIANA DEPT. OF CONSERVATION

FORTUNA ENERGY CORP.

PERMIT PLAT

CAMERON PARISH, LOUISIANA

SCALE: 1"=1000'

APRIL 16, 1982

167446

STATE OF LOUISIANA
OFFICE OF CONSERVATION
LOUISIANA STATE POTENTIAL REPORT

District LAKE CHARLES INPUT TYPE
 Field CRAB LAKE 1 - OC Only
 Parish CAMERON 2 - Original
 Operator FORTUNA ENERGY CORP Code 3 - Correction
 Sec. 29 TWP 15 RGE 5 Test Date 7 / 21 / 82
 12 Mo. Day Yr.

TYPE OF WELL TYPE OF TEST PRODUCING METHOD
 1-OIL 1-COMPLETION F-FLOWING
 2-GAS 2-RECOMPLETION P-PUMPING
 18 19 3-RETEST 20 G-GASLIFT

WELL SERIAL NO.	WELL NAME	WELL NO.	NAME OF RESERVOIR
167446	Miller Estate	1	Rob 1170 sand

TOTAL DEPTH	PERFORATED INTERVAL FROM	PERFORATED INTERVAL TO	CHOKE /64"	OIL BBL/DAY	COND. BBL/DAY	GAS MCF/DAY	GAS/OIL RATIO CF/BBL
1800	1171	1175	6 1/2	-	20	759,000	26786/1

API GRAV. @ 60° F.	WATER BBL/DAY	BS&W %	FLOWING PRES. (PSIG)	CASING PRES. (PSIG)	DATE OF COMPLETION		
					MO.	DAY	YR.
51.6	1	1/10	3300	50	7	12	82

CLOSE TANK / METER GAUGE 0088 TIME 8 AM
 OPEN TANK / METER GAUGE 0000 TIME 8 AM
 DIFFERENCE 28 in 24 HOURS
 TANK / METER NO. _____ TANK COEF. 1.67

STATIC PRES. 990 DIFFERENTIAL PRES. 18 LINE SIZE 3"
 PLATE SIZE 3/8 COEFFICIENT _____ METER SPRING & DIFF. RANGE 1500/100

REMARKS _____

 WITNESSED BY [Signature] GAUGED BY Bobby Landry
 TITLE _____ TITLE _____

STATE OF LOUISIANA
OFFICE OF CONSERVATION

Inter Office

Date: 1/4/83

To: Baton Rouge Office

From: Lake Charles District

Attn: T. P. Heard

Enclosed herewith please find application from Fortuna Energy Corporation
for permit to amend name
their CH 2 RA SUA, Miller #1 Crab Lake Field
Cameron Parish, Louisiana. Zone Onshore

Also enclosed please find:

Check No. _____ in the amount of \$ _____.

_____ Well location plat

_____ Well location certification

_____ Form A.D.C.

_____ Electric Log

_____ Schematic diagram

_____ (Dual) structure map if well does not comply with existing Orders

_____ (Selective-Onshore) structure map showing reservoir limits

_____ (Selective-Offshore) letter(s) of no objection from offset operators

Applicable Department of Conservation Order No. 865-D; 29-B

Pending Hearing, Docket No. _____

Remarks & Recommendations: Recommend approval. Name changed to comply with
the provisions of Order 865-D and nomenclature standards.
This amendment is exempt from the fee.

FORMERLY: Miller Estate #1

By W. C. White
District Manager

cc: Geological Oil & Gas Division
Prod. Audit (for Amended Permits only)

LT-1

- 1. Change
- 2. Correction
- 8301 Effective Date
yymm
- 9999 End Date
yymm

167446 Serial No. LC Date Jan. 5, 1983

CURRENT CODES

012 PARISH Cameron

3000 FIELD Crab Lake

1916 OPERATOR Fortuna Energy Corporation

ADDRESS P.O. Box 52588

CITY & STATE Lafayette, LA 70505

FORMER CODES

AMENDMENT ACTION

- 0.0.9. PARISH
- 0.3.4. FIELD
- 0.3.5. OPERATOR
- 0.1.6. LSE-UN
- 0.1.6. UN-LSE
- 0.1.6. LSE-LSE
- 0.1.6. UN-UN
- 0.1.4. WELL NO.
- 5.2.1. LOCATION

608036 WELL NAME *CH 2 RA SUA; Miller No. 1 167446

LOCATION OF WELL: Sec. 29 T 15S R 5W Former Well No. _____

Location Same

*Miller Est

Applicable Department of Conservation Order 29B, 29E, 865 Series

Patrick H. Martini Commissioner

J. H. Hard? Issuing Authority

WELL FILE COPY

No.

dm

A-C

STATE OF LOUISIANA
OFFICE OF CONSERVATION

WELL COMPLETION OR RECOMPLETION REPORT

DISTRICT Lake Charles

29-E COMPLIANCE	<u> </u>	<u> </u>
	YES	NO
29-E UNIT ATTACHED	<u> </u>	<u> </u>
	YES	NO
D.O.C. USE ONLY		

CODE NUMBERS:	DATE <u>5-11-83</u>	<input type="checkbox"/> 1 - ON-SHORE
<u>012</u>	PARISH <u>Cameron</u>	<input checked="" type="checkbox"/> 3 - OFF-SHORE
<u>3000</u>	FIELD <u>Crab Lake</u>	SEC. <u>29</u> T <u>15 S</u> R <u>5 W</u>
<u>1916</u>	OPERATOR <u>Fortuna Energy Corp.</u>	DOC ORDER NO. <u>865-D</u>
<u>167446</u>	WELL NAME <u>Miller Estate</u>	NO. <u>1</u> SERIAL NO. <u>167446</u>
	RESERVOIR <u>11150' Sand, Seg. A</u>	COMPLETION DATE <u>5-6-83</u> TIME <u>4:00</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM

PORTANT: IS A FORM MD-10-R-A BEING FILED WITH THIS REPORT? IF NO, EXPLAIN YES NO

REMARKS: _____

COMPLETION DATA:

TYPE COMPLETION	PRIMARY PRODUCT	PRIMARY PRODUCT CHANGE?	PRODUCING METHOD	STATUS OF WELL
<input checked="" type="checkbox"/> 1 - ORIG. COMP. <input type="checkbox"/> 2 - RE-COMP.	<input checked="" type="checkbox"/> 1 - OIL <input type="checkbox"/> 2 - GAS <input type="checkbox"/> 3 - DRY GAS	<input checked="" type="checkbox"/> 1 - YES <input type="checkbox"/> 2 - NO	<input checked="" type="checkbox"/> F - FLOWING <input type="checkbox"/> GL - GAS LIFT <input type="checkbox"/> P - PUMPING	<input type="checkbox"/> 1 <input type="checkbox"/> 0 SEE REVERSE SIDE FOR CODE

IF THIS IS A RE-COMPLETION SPECIFY: SAME RESERVOIR DIFFERENT RESERVOIR

<u>2</u> INITIAL PROD. BOPD	<u>460</u> GAS VOLUME MCF/DAY	<u>2800</u> FLOWING TUBING PRESSURE PSIG	<u>3600</u> SHUT-IN TUBING PRESSURE PSIG	<u>50</u> CASING PRESSURE PSIG
<u>4</u> OKE SIZE / <u>64"</u>	<u>0</u> WATER PROD. BPD	<u>0</u> BS & W %	<u>230000</u> GOR CF/BBL	<u>60</u> GRAVITY API AT 60°F

ADJUST 1 - POSITIVE
ADJUST 2 - ADJUST

PERFORATIONS 11144'-51' TOTAL DEPTH 18000

PERMITS & CERTIFICATION:

ADDITIONAL CLEARANCE IS REQUESTED FOR _____ BBLs. OF OIL PRODUCED ON DRILL-STEM OR OTHER PRODUCTION TEST: (SEE SECTION X PARAGRAPH B OF ORDER 29-B ON REVERSE SIDE).

CERTIFICATION

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Charles B. Paul

Fortuna Energy SIGNATURE
Petroleum Engineer OPERATOR
TITLE

INSTRUCTIONS

THREE (3) COPIES TO BE FILED WITH THE DISTRICT OFFICE WITHIN THREE (3) DAYS OF DATE OF COMPLETION OR RECOMPLETION (AS PER ORDER 29-B, SECTION X, PARAGRAPH A, ARTICLE 1).



W. B. Zinn

OFFICE OF CONSERVATION
WELL HISTORY AND WORK RESUME REPORT

FIELD

Crab Lake

SERIAL NO.

167446

PRODUCING INTERVAL

11144-11151

RESERVOIR (COMPANY SAND IDENTIFICATION)

11150' Sand, Seg. A

Three typewritten copies of this report must be filed with the District Office of the Office of Conservation in which the well is located within twenty (20) days of the date of completion. NOTE: If not properly completed and signed this report will be returned.

LEASE AND WELL DATA

CHECK APPROPRIATE BOXES

- NEW WELL
- RECOMPLETION
- P & A

- 31 INACTIVE DRY HOLE FUT. UTIL.
- 32 INACTIVE DRY HOLE NO FUT. UTIL.
- 36 INACTIVE WAITING ON PIPELINE
- 37 INACTIVE WAITING ON MARKET

- PRODUCT
- OIL
 - GAS
 - OTHER

- IF RECOMPLETION
- SAME RESERVOIR
 - DIFFERENT RESERVOIR

DATE COMP. (RECOMP. OR P & A) M D Y
5/6/83

OPERATOR

Fortuna Energy Corp.

CODE

1916

ADDRESS

2810 Liberty Tower, Oklahoma City, OK 73102

WELL NAME

Miller Estate

WELL NO.

1

PARISH
Cameron

SEC. 29 TWP. 15 S RGE. 5 W

DATE PERMIT ISSUED
5-2-83

DATE SPUNDED
M D Y
5-4-83

DATE READY TO PRODUCE*
5-6-83

TOTAL DEPTH
18000'

PBTD.
11164'

GROUND ELEVATION

CASING HEAD FLANGE ELEVATION

DISTANCE FROM RKB TO CHF
24.40'

DATE WELL TURNED INTO TANKS
5-6-83

SINGLE, DUAL OR TRIPLE COMPLETION?
Single

NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION

WAS WELL DIRECTIONALLY DRILLED?
No

WAS DIRECTIONAL SURVEY MADE?

WERE 3 COPIES FILED WITH THE OFFICE OF CONSERVATION?

DATE FILED

TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH OFFICE OF CONSERVATION)

DATE FILED

CASING, LINER AND TUBING RECORD

DEPTH	CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET		SACKS CEMENT	TEST PRESSURE	HOURS UNDER PRESSURE	DATE TESTED (MM DD YY)	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
				FROM	TO					
101	9 5/8	12 1/4	47&53	5 0'	12870	1050	3500		5-10-80	
102										
103										
104										
105										

TUBING SIZE: 2 7/8 DEPTH OF TUBING: 9855' DEPTH OF PACKER(S): 9863' (bottom)

INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION 2	GAS VOLUME BOPD 460	GOR MCF/DAY 230,000	CHOKER SIZE CF/BBL 4 /64"	PRODUCING METHOD Flowing
FLOWING TUBING PRESSURE 2800 psig	SHUT-IN TUBING PRESSURE 3600 psig	CASING PRESSURE 50	WATER PRODUCTION 0 BPD	BS&W 0 %
GRAVITY 60 *API@60° F	BHP (SHUT-IN) 5185 est. psig	COMPANY REPRESENTATIVE Lee Harrison	DATE GAUGED 5-8-83	

PLUG AND ABANDON (P & A) DATA

CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
		FROM	TO	SACKS	HOW PLACED		

CERTIFICATE: I, the undersigned, state that I am employed by Fortuna/Zinn and that I am authorized to make this report, and that this report was prepared under my supervision and direction and that all facts stated herein are true, correct and complete to the best of my knowledge.

Signature: W. B. Zinn

Title: Petroleum Engineer

*Date well is equipped to produce, but due to no available market, no pipe line connection, etc.; the well has been shut-in.

WORK RESUME

List below all work performed under Office of Conservation Work Permits while drilling and completing well.

WORK PERMIT NO.	DATE WORK PERFORMED	SERVICE COMPANY	DESCRIPTION OF WORK
405-83	5-4/5-83	Coastal Perforators	Set CIBP at 11164' to isolate perforations 11171'-75'; perforated 11144'-51'; set permanent future plugback packer at 10222'.

List below all important Paleofaunal or Geological Formation tops, Cap Rock and Salt Overhang bottoms.

FORMATION	DEPTH	FORMATION	DEPTH

RECEIVED
 JUN 07 1983
 22:06

167446

STATE OF LOUISIANA
OFFICE OF CONSERVATION
LOUISIANA STATE POTENTIAL REPORT

District Lake Charles INPUT TYPE
 Field CRAB LAKE 1 - OC Only
 Parish Orleans 2 - Original
 Operator Forbush Energy Corp Code 11 3 - Correction
 Sec. 29 TWP. _____ RGE. _____ Test Date 5 / 16 / 83
 12. Mo. Day Yr.

TYPE OF WELL TYPE OF TEST PRODUCING METHOD
 1-OIL 1-COMPLETION F-FLOWING
 2-GAS 2-RECOMPLETION P-PUMPING
 18 19 20 G-GASLIFT
 3-RETEST

WELL SERIAL NO.	WELL NAME	WELL NO.	NAME OF RESERVOIR
167446	Miller EST.	1	1115 SAND

TOTAL DEPTH	PERFORATED INTERVAL FROM	PERFORATED INTERVAL TO	CHOKE /64"	OIL BBL/DAY	COND. BBL/DAY	GAS MCF/DAY	GAS/OIL RATIO CF/BBL
18,000	1114	1151	4	-	17	750	4418/1

API GRAV. @60°F.	WATER BBL/DAY	BS&W%	FLOWING PRES. (PSIG)	CASING PRES. (PSIG)	DATE OF COMPLETION		
					MO.	DAY	YR.
51	2	1/10	2800	50	5	16	83

CLOSE TANK / METER GAUGE 8' 10" TIME 8 AM
 OPEN TANK / METER GAUGE 8' 0" TIME 8 AM
 DIFFERENCE 10" in 24 HOURS
 TANK / METER NO. _____ TANK COEF. 1.67

STATIC PRES. 250 DIFFERENTIAL PRES. 26" LINE SIZE 2
 PLATE SIZE 8 1/2 COEFFICIENT _____ METER SPRING & DIFF. RANGE _____

REMARKS _____

WITNESSED BY [Signature] GAUGED BY [Signature]
 TITLE _____ TITLE _____

STATE OF LOUISIANA
OFFICE OF CONSERVATION

Inter Office

Date: 5/24/83

To: Baton Rouge Office
From: Lake Charles District
Attn: T. P. Heard

Enclosed herewith please find application from Fortuna Energy Corp.

_____ for permit to _____ amend name on _____
their Miller Estate #1, Crab Lake Field
Cameron Parish, Louisiana. Zone onshore

Also enclosed please find:

Check No. _____ in the amount of \$ _____

_____ Well location plat

_____ Well location certification

*29-B
29-B
Series D.P.*

_____ Form A.D.C.
_____ Electric Log
_____ Schematic diagram
_____ (Dual) structure map if well does not comply with existing Orders
_____ (Selective-Onshore) structure map showing reservoir limits
_____ (Selective-Offshore) letter(s) of no objection from offset operators

Applicable Department of Conservation Order No. 29-B

Pending Hearing, Docket No. _____

Remarks & Recommendations:

Recommend approval. This well has been recompleted out of the unit sand and returns to lease status. This amendment is exempt from the fee.

FORMERLY: CH-2 RA SUA; Miller #1

By W. C. Wilhite
District Manager
W. C. WILHITE

cc: Geological Oil & Gas Division
Prod. Audit (for Amended Permits only)

DEPT. OF CONSERVATION
USE ONLY

~~XXXXXX~~ Change
~~120~~ Correction

012 Effective Date
YYMM

9999 End Date
YYMM

AMENDMENT ACTION

- 0.0.9.1 PARISH
- 0.3.4.2 FIELD
- 0.3.5.3 OPERATOR
- 0.1.6.4 LSE-UN
- 0.1.6.3 UN-LSE
- 0.1.6.6 LSE-LSE
- 0.1.6.7 UN-UN
- 0.1.4.8 WELL NO.
- 5.2.1.9 LOCATION

FOR YOUR INFO
(R 2-1976)

AMENDED PERMIT TO DRILL FOR MINERALS (CORRECTED)

STATE OF LOUISIANA
DEPARTMENT OF CONSERVATION
Amended Permit (Corrected)

167446

Serial No.

IC

Date Oct. 15, 1983

CURRENT CODES

012

PARISH

Cameron

FORMER CODES

3000

FIELD

Crab Lake

1916

OPERATOR

Tortuna Energy Corp

ADDRESS
2810 Liberty Tower

CITY & STATE
Oklahoma City, OK 73102

167446

WELL NAME

Miller Estate*

No. 1

608036

LOCATION OF WELL: Sec. 29 T 15S R 5W Former Well No.

Location Same

*CH 2 RA SUA: Miller

Applicable Department of Conservation Order 865-D

Patrick H. Monti
Commissioner

[Signature]
Issuing Authority

WELL FILE COPY

No.

jm

A-C

STATE OF LOUISIANA
OFFICE OF CONSERVATION

Inter Office

Date: 10/7/83

9000

To: Baton Rouge Office

From: Lake Charles District

Attn: T. P. Heard

Enclosed herewith please find application from Fortuna Energy Corporation

for permit to amend name on

their CH-1 RA SUA; Miller #1, Crab Lake Field

Cameron Parish, Louisiana. Zone onshore

Also enclosed please find:

Check No. _____ in the amount of \$ _____.

_____ Well location plat

_____ Well location certification

_____ Form A.D.C.

_____ Electric Log

_____ Schematic diagram

_____ (Dual) structure map if well does not comply with existing Orders

_____ (Selective-Onshore) structure map showing reservoir limits

_____ (Selective-Offshore) letter(s) of no objection from offset operators

Applicable Department of Conservation Order No. 865-E.

Pending Hearing, Docket No. _____.

Remarks & Recommendations:

Recommend approval. Name changed to comply with the provision so order 865-E and nomenclature standards. This amendment is exempt from the fee.

FORMERLY: CH 2 RA SUA; Miller #1

By: W. C. Wilhite
District Manager

W. C. WILHITE

cc: Geological Oil & Gas Division
Prod. Audit (for Amended Permits only)

LT-1



PATRICK H. MARTIN
COMMISSIONER

DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION

P.O. BOX 44275
BATON ROUGE, LA. 70804-4275

RE: Cameron Parish
Crab Lake Field
Ser. #167466
Well Name: Miller Estate

Fortuna Energy Corporation
2810 Liberty Tower
Oklahoma City, OK 73102

Gentlemen:

We are issuing Amended Permit to Drill for the above referenced well with the understanding that completion cannot be in any pool in which the location does not conform with the provisions of Statewide Order No. 29-E.

No allowable will be assigned this well unless in compliance with the above provisions.


Also, we are issuing Amended Permit to Drill for the above referenced well with the understanding that you will furnish the appropriate District Manager with Inclination and/or Directional Survey data as proof that the well has been drilled in compliance with the provisions of the Statewide Order No. 29-B, Section XVIII, dated March 1, 1967.

In addition, there will be no completion in any reservoir which is not in compliance with the provisions of the Louisiana Office of Conservation Orders of the _____ Series, for the above captioned field and parish.

Very truly yours,

PATRICK H. MARTIN, COMMISSIONER
OFFICE OF CONSERVATION

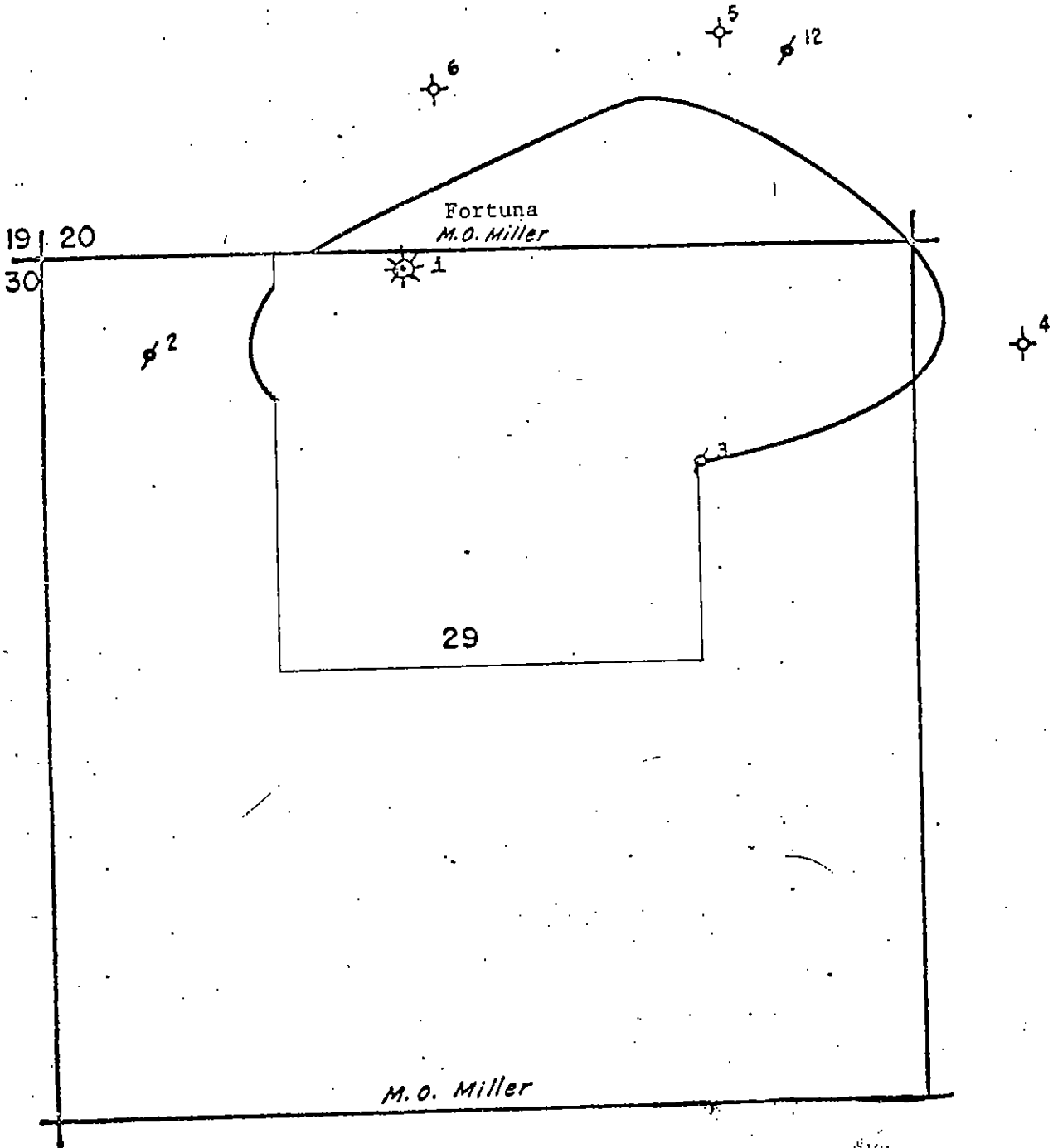
BY


J.W. Hecker
Chief Engineer

CC: District Manager

JWH:TPH;jnm

29-B, 29-E, Special Order



Fortuna Energy Corporation

247 acres

Crab Lake Field
Cameron Parish, Louisiana

Acreage Plat
9500' Sand

1 inch = 1,000 feet

~~XXXX~~ Change
 Correction
8305 Effective Date
yymm
9999 End Date
yymm

167446 Serial No. LC Date Nov. 4, 1983
CURRENT CODES
012 PARISH Cameron
3000 FIELD Crab Lake
1916 OPERATOR Fortuna Energy Corporation
ADDRESS 2810 Liberty Tower
CITY & STATE Oklahoma City, OK 73102

FORMER CODES

AMENDMENT ACTION

- 0.0.9. PARISH
- 0.3.4. FIELD
- 0.3.5. OPERATOR
- 0.1.6. LSE-UN
- 0.1.6. UN-LSE
- 0.1.6. LSE-LSE
- 0.1.6. UN-UN
- 0.1.4. WELL NO.
- 5.2.1. LOCATION

167446 WELL NAME Miller Estate * No. 1 608036
LOCATION OF WELL: Sec. 29 T. 15S R. 5W Former Well No. _____
Location Same
*CH 2 RA SUA; Miller

Applicable Department of Conservation Order 865-D
Rafuck H. Martini Commissioner
[Signature] Issuing Authority

WELL FILE COPY

No. jmm A-C



OFFICE OF CONSERVATION
WELL HISTORY AND WORK RESUME REPORT

Miller

FIELD
Crab Lake

SERIAL NO.
167446 ✓

PRODUCING INTERVAL
9554-9560

RESERVOIR (COMPANY SAND IDENTIFICATION)
9500' Sand, Segment A

Three typewritten copies of this report must be filed with the District Office of the Office of Conservation in which the well is located within twenty (20) days of the date of completion. NOTE: If not properly completed and signed this report will be returned.

LEASE AND WELL DATA

CHECK APPROPRIATE BOXES

<input type="checkbox"/> NEW WELL	<input type="checkbox"/> 31 INACTIVE DRY HOLE FUT. UTIL.	PRODUCT	IF RECOMPLETION	DATE COMP. RECORD OR P & A M D Y
<input checked="" type="checkbox"/> RECOMPLETION	<input type="checkbox"/> 32 INACTIVE DRY HOLE NO FUT. UTIL.	<input type="checkbox"/> OIL	<input type="checkbox"/> SAME RESERVOIR	1-20-84
<input type="checkbox"/> P & A	<input type="checkbox"/> 36 INACTIVE WAITING ON PIPELINE	<input checked="" type="checkbox"/> GAS	<input checked="" type="checkbox"/> DIFFERENT RESERVOIR	
	<input type="checkbox"/> 37 INACTIVE WAITING ON MARKET	<input type="checkbox"/> OTHER		

OPERATOR: Fortuna Energy Corporation
CODE: 1916
ADDRESS: 2810 Liberty Tower, Oklahoma City, OK 73102

WELL NAME: Miller Estate
WELL NO.: 1

PARISH: Cameron
SEC. 29 TWP. 15S RGE. 5W
DATE PERMIT ISSUED: 1-9-84

DATE SPOOLED: 1-17-84
DATE READY TO PRODUCE*: 1-23-84
TOTAL DEPTH: 18000'
PSTD.: 9979'

GROUND ELEVATION: _____
CASING HEAD FLANGE ELEVATION: _____
DISTANCE FROM RKB TO CHF: 24.40'

DATE WELL TURNED INTO TANKS: 1-23-84
SINGLE, DUAL OR TRIPLE COMPLETION?: Single
NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION

WAS WELL DIRECTIONALLY DRILLED? No
WAS DIRECTIONAL SURVEY MADE?
WERE 3 COPIES FILED WITH THE OFFICE OF CONSERVATION?
DATE FILED

TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH OFFICE OF CONSERVATION)
DATE FILED

CASING, LINER AND TUBING RECORD

C	CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET		SACKS CEMENT	TEST PRESSURE	HOURS UNDER PRESSURE	DATE TESTED (MM DD YY)	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
				FROM	TO					
101	9 5/8	12 1/4	47, 53	5	0 12870	1050	3500		5-10-80	
102										
103										
104										
105										

TUBING SIZE: 2 7/8
DEPTH OF TUBING: 9421
DEPTH OF PACKER(S): 9421

INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION: 35 BOPD
GAS VOLUME: 585 MCF/DAY
GOR: 16,714 CF/BBL
CHOKE SIZE: 5 /64"
PRODUCING METHOD: Flowing

FLOWING TUBING PRESSURE: 3200 psig
SHUT-IN TUBING PRESSURE: 3300 psig
CASING PRESSURE: 0
WATER PRODUCTION: 0 BPD
BS&W: 0 %

GRAVITY: 54.0 °API @ 60°F
BHP (SHUT-IN): 4445 est. psig
COMPANY REPRESENTATIVE: Lee Harrison
DATE GAUGED: 2-1-84

PLUG AND ABANDON (P & A) DATA

CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
		FROM	TO	SACKS	HOW PLACED		

CERTIFICATE: I, the undersigned, state that I am employed by Fortuna/Zinn and that I am authorized to make this report, and that this report was prepared under my supervision and direction and that all facts stated herein are true, correct and complete to the best of my knowledge.

Signature: *Lee Harrison* Title: Petroleum Engineer

*Date well is equipped to produce, but due to no available market, no pipe line connection, etc., the well has been shut-in.

(L)

WORK RESUME

List below all work performed under Office of Conservation Work Permits while drilling and completing well.

WORK PERMIT NO	DATE WORK PERFORMED	SERVICE COMPANY	DESCRIPTION OF WORK
20-84	1-20-84	Coastal Perforators	Set CIBP at 9979', perforated 9554'-60' with 5" casing gun.

List below all important Paleofaunal or Geological Formation tops, Cap Rock and Salt Overhang bottoms.

FORMATION	DEPTH	FORMATION	DEPTH

OFFICE OF CONSERVATION
LAKE CHARLES DIST.
A 9 : 11
84 FEB 10

RECEIVED

RECEIVED AND TIME

FEB 24 1984

DEPT. OF CONSERVATION
WELL FILES
BATON ROUGE, LA

STATE OF LOUISIANA
DEPARTMENT OF CONSERVATION

WELL COMPLETION OR RECOMPLETION REPORT

DISTRICT Lake Charles

29-E COMPLIANCE	<u>YES</u>	<u>NO</u>
29-E UNIT ATTACHED	<u>YES</u>	<u>NO</u>
D.O.C. USE ONLY		

CODE NUMBERS: <u>012</u>	DATE <u>2-6-84</u>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	1 - ON-SHORE 2 - INTERMEDIATE 3 - OFF-SHORE
<u>3000</u>	PARISH <u>Cameron</u>	SEC. <u>29</u>	T <u>15S</u> R <u>5W</u>
<u>1916</u>	FIELD <u>Crab Lake</u>	DOC ORDER NO. _____	
<u>167446</u>	OPERATOR <u>Fortuna Energy Corp.</u>	NO. <u>1</u>	SERIAL NO. <u>167446</u>
	WELL NAME <u>Miller Estate</u>	COMPLETION DATE <u>1-23-84</u>	TIME <u>2:30</u>
	RESERVOIR <u>9500' Sand, Seg. A</u>		<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM

IMPORTANT: IS A FORM MD-10-R-A BEING FILED WITH THIS REPORT? IF NO, EXPLAIN YES NO

REMARKS: No status change, lease basis

COMPLETION DATA:

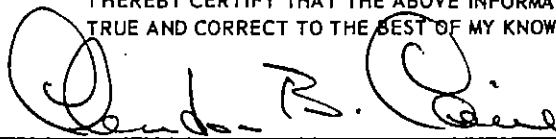
TYPE COMPLETION	PRIMARY PRODUCT	PRIMARY PRODUCT CHANGE?	STATUS of well	PRODUCING METHOD
<input checked="" type="checkbox"/> 1 - ORIG. COMP. <input type="checkbox"/> 2 - RE-COMP.	<input checked="" type="checkbox"/> 1 - OIL <input type="checkbox"/> 2 - GAS <input type="checkbox"/> 3 - DRY GAS	<input checked="" type="checkbox"/> 1 - YES <input type="checkbox"/> 2 - NO	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/> 1 - FLOWING <input type="checkbox"/> 2 - GAS LIFT <input type="checkbox"/> 3 - PUMPING <input type="checkbox"/> 4 - SHUT IN
IF THIS IS A RE-COMPLETION SPECIFY: SAME RESERVOIR <input type="checkbox"/> DIFFERENT RESERVOIR <input checked="" type="checkbox"/>				
<u>35</u> BOPD INITIAL PROD.	<u>585</u> MCF/DAY GAS VOLUME	<u>3200</u> PSIG FLOWING TUBING PRESSURE	<u>3300</u> PSIG SHUT-IN TUBING PRESSURE	<u>0</u> PSIG CASING PRESSURE
<u>5</u> / <u>64"</u> OKE SIZE	<input checked="" type="checkbox"/> 1 - POSITIVE <input type="checkbox"/> 2 - ADJUST <u>0</u> BPD <u>Water Prod</u>	<u>0</u> % BS & W	<u>16714</u> CF/BBL GOR	<u>54.0</u> API AT 60°F GRAVITY
PERFORATIONS <u>9554-9560</u>				TOTAL DEPTH <u>18000</u>

PERMITS & CERTIFICATION:

ADDITIONAL CLEARANCE IS REQUESTED FOR _____ BBLs. OF OIL PRODUCED ON DRILL-STEM OR OTHER PRODUCTION TEST: (SEE SECTION X PARAGRAPH B OF ORDER 29-B ON REVERSE SIDE).

CERTIFICATION

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


SIGNATURE
Fortuna Energy Corp.
OPERATOR
Petroleum Engineer
TITLE

INSTRUCTIONS

THREE (3) COPIES TO BE FILED WITH THE DISTRICT OFFICE WITHIN THREE (3) DAYS OF DATE OF COMPLETION OR RECOMPLETION (AS PER ORDER 29-B, SECTION X, PARAGRAPH A, ARTICLE 1).

RECEIVED AND TIME

DEPARTMENT OF CONSERVATION
STATE OF LOUISIANA

RECEIVED
AUG 10 1952
LAKELAND DIST.

This side is to be used when requesting clearance for oil produced on Drill Stem Test or other Production Tests, made previous to official completion or red completion.

SECTION X, PARAGRAPH B OF ORDER NO. 29-B

Allowables given to wells for oil produced on drill stem tests, production test and miscellaneous production of oil shall be in accordance with the following rule:

All operators are required within five days, to file three signed copies of the record of the daily production from the well, showing the number of hours the well produced and the interval of production --- as "from 8:00 A.M., August 5 to 3:00 P.M., August 8, 1952."

TEST DATA

Date of Test

Time of Test

Amount of Oil Produced

_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels
_____	_____ M. to _____ M.	_____ Barrels

TOTAL _____ BARRELS

The above total barrels of oil were produced from _____ Ft. to _____ Ft.

Remarks: _____

OPERATOR

Form - Comp.

(Signed) OPERATOR REPRESENTATIVE

- 1. Change
- 2. Correction
- 8398 Effective Date
yymm
- 9999 End Date
yymm

167446 Serial No. LC Date April 2, 1984

CURRENT CODES

012 PARISH Cameron

3000 FIELD Crab Lake

1916 OPERATOR Fortuna Energy Corporation

ADDRESS 2810 Liberty Tower

CITY & STATE Oklahoma City, OK 73102

FORMER CODES

AMENDMENT ACTION

- 0.0.9. PARISH
- 0.3.4. FIELD
- 0.3.5. OPERATOR
- 0.1.0. LSE-UN
- 0.1.6. UN-LSE
- 0.1.6. LSE-LSE
- 0.1.6. UN-UN
- 0.1.4. WELL NO.
- 5.2.1. LOCATION

608422 WELL NAME CH 1 RA SUA; Miller* No. 1 167446

LOCATION OF WELL: Sec. 29 T. 15S R. 5W Former Well No. _____

Location Same

*Miller Estate

Applicable Department of Conservation Order _____

Albert V. Thompson
Commissioner

[Signature]
Issuing Authority

WELL FILE COPY

No. jmm A-C

29-E COMPLIANCE
 YES NO
 29-E UNIT ATTACHED
 YES NO

 D.O.C. USE ONLY

STATE OF LOUISIANA
 OFFICE OF CONSERVATION

WELL COMPLETION OR RECOMPLETION REPORT

DISTRICT Lake Charles

CODE NUMBERS: 012 | DATE 6-12-84 | 1 1 - ON-SHORE
 3000 | PARISH Cameron | 2 2 - INTERMEDIATE
 1916 | FIELD Crab Lake | 3 3 - OFF-SHORE
 167446 | OPERATOR Fortuna Energy Corp. | SEC. 29 T 15S R 5W
 WELL NAME Miller Estate NO. 1 SERIAL NO. 167446
 RESERVOIR 9650' Sand, Seg. A | COMPLETION DATE 6-9-84 | 5:00 | AM PM

IMPORTANT: IS A FORM MD-10-R-A BEING FILED WITH THIS REPORT? IF NO, EXPLAIN YES NO

REMARKS: _____

COMPLETION DATA:

TYPE COMPLETION	PRIMARY PRODUCT	PRIMARY PRODUCT CHANGE?	PRODUCING METHOD	STATUS OF WELL
<input checked="" type="checkbox"/> 1 - ORIG. COMP <input type="checkbox"/> 2 - RE-COMP	<input checked="" type="checkbox"/> 1 - OIL <input type="checkbox"/> 2 - GAS <input type="checkbox"/> 3 - DRY GAS	<input checked="" type="checkbox"/> 1 - YES <input type="checkbox"/> 2 - NO	<input checked="" type="checkbox"/> F - FLOWING <input type="checkbox"/> G L - GAS LIFT <input type="checkbox"/> P - PUMPING	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 0 SEE REVERSE SIDE FOR CODE

IF THIS IS A RE-COMPLETION SPECIFY: SAME RESERVOIR DIFFERENT RESERVOIR

181 BOPD INITIAL PROD. 293 MCF/DAY GAS VOLUME 2300 PSIG FLOWING TUBING PRESSURE 2670 PSIG SHUT-IN TUBING PRESSURE 0 PSIG CASING PRESSURE

8 /64" OKE SIZE 2 1 - POSITIVE
2 - ADJUST 0 BPD WATER PROD. 0 % BS & W 1622 CF/BBL GOR 42 API AT 60°F GRAVITY

PERFORATIONS 9656'-9660' TOTAL DEPTH 18000

PERMITS & CERTIFICATION:

ADDITIONAL CLEARANCE IS REQUESTED FOR _____ BBLs. OF OIL PRODUCED ON DRILL-STEM OR OTHER PRODUCTION TEST: (SEE SECTION X PARAGRAPH B OF ORDER 29-B ON REVERSE SIDE).

CERTIFICATION

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Robert B. Craig

 SIGNATURE
 Fortuna Energy Corp.

 OPERATOR
 Petroleum Engineer

 TITLE

INSTRUCTIONS

THREE (3) COPIES TO BE FILED WITH THE DISTRICT OFFICE WITHIN THREE (3) DAYS OF DATE OF COMPLETION OR RECOMPLETION (AS PER ORDER 29-B, SECTION X, PARAGRAPH A, ARTICLE 1).



OFFICE OF CONSERVATION
WELL HISTORY AND WORK RESUME REPORT

FIELD
Crab Lake

SERIAL NO.
167446

PRODUCING INTERVAL
9656-9660'

RESERVOIR (COMPANY SAND IDENTIFICATION)
9650' Sand, Segment A

Three typewritten copies of this report must be filed with the District Office of the Office of Conservation in which the well is located within twenty (20) days of the date of completion. NOTE: If not properly completed and signed this report will be returned.

LEASE AND WELL DATA

CHECK APPROPRIATE BOXES

NEW WELL
 RECOMPLETION
 P B A

31 INACTIVE DRY HOLE FUT. UTIL.
 32 INACTIVE DRY HOLE NO FUT. UTIL.
 36 INACTIVE WAITING ON PIPELINE
 37 INACTIVE WAITING ON MARKET

PRODUCT
 OIL
 GAS
 OTHER

IF RECOMPLETION
 SAME RESERVOIR
 DIFFERENT RESERVOIR

DATE COMP. RECD OR P B A M D Y
6-9-84

OPERATOR
Fortuna Energy Corp *Nelson* CODE 1916 ADDRESS
2810 Liberty Tower, Oklahoma City, OK 73117

WELL NAME
Miller Estate WELL NO
1

PARISH
Cameron SEC. 29 TWP. 15S RGE. 5W DATE PERMIT ISSUED
6-4-84

DATE SPUNDED M. D. Y. 6-7-84 DATE READY TO PRODUCE* 6-10-84 TOTAL DEPTH 18000 PSTD. 9979'

GROUND ELEVATION CASING HEAD FLANGE ELEVATION DISTANCE FROM RKB TO CNF
24.4

DATE WELL TURNED INTO TANKS 6-11-84 SINGLE, DUAL OR TRIPLE COMPLETION? Single

NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION.

WAS WELL DIRECTIONALLY DRILLED? WAS DIRECTIONAL SURVEY MADE? WERE 3 COPIES FILED WITH THE OFFICE OF CONSERVATION? DATE FILED

TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH OFFICE OF CONSERVATION) DATE FILED

CASING, LINER AND TUBING RECORD

C	CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET		SACKS CEMENT	TEST PRESSURE	HOURS UNDER PRESSURE	DATE TESTED (MM DD YY)	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR	
				FROM	TO						
101	9 5/8	12 1/4	47.53	5 0	12870	1050	3500		5-10-80		
102											
103											
104											
105											
TUBING SIZE		2 7/8		DEPTH OF TUBING*		9610		DEPTH OF PACKER(S)		9610	

INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION 181 GAS VOLUME BOPD 293 GOR MCF/DAY 1622 CHOKE SIZE 8 / 64" PRODUCING METHOD Flow

FLOWING TUBING PRESSURE 2300 psig SHUT-IN TUBING PRESSURE 2650 psig CASING PRESSURE 0 WATER PRODUCTION 0 BSWW 0

GRAVITY 40 BHP (SHUT-IN) est. 4488 COMPANY REPRESENTATIVE Lee Harrison DATE GAUGED -12-84

PLUG AND ABANDON (P B A) DATA

CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
		FROM	TO	SACKS	HOW PLACED		

CERTIFICATE: I, the undersigned, state that I am employed by Fortuna/Zinn and that I am authorized to make this report, and that this report was prepared under my supervision and direction and that all facts stated herein are true, correct and complete to the best of my knowledge.

Signature: *Wanda B. Paul* Title: Petroleum Engineer

* Note well is equipped to produce, but due to no available market, no pipe line connection, etc., the well has been shut-in.

RECEIVED AND TIME

84 JUN 22 P 3: 37

DEPT. OF CONSERVATION
LAKE CHARLES DIST.

DEPTH	FORMATION	DEPTH	FORMATION

List below all important Paleontological or Geological Formation tops, Cap Rock and Salt Overhang bottoms.

RECEIVED

SEP 4 1984

DEPT. OF CONSERVATION
WELL FILES
BATON ROUGE, LA

DESCRIPTION OF WORK	SERVICE COMPANY	DATE WORK PERFORMED	WORK PERMIT NO
Perforate 9656'-60' through tubing.	Coastal Perforators	6-9-84	513-84

List below all work performed under Office of Conservation Work Permits while drilling and completing well.

WORK RESUME

STATE OF LOUISIANA
OFFICE OF CONSERVATION
LOUISIANA STATE POTENTIAL REPORT

District Lake Charles INPUT TYPE
 Field Crab Lake 1 - OC Only
 Parish Cameron 2 - Original
 Operator Fortuna Energy Code 11 3 - Correction
 Sec. 29 TWP. 15S RGE. 5W Test Date 6/14/04
 12 Mo. Day Yr.

TYPE OF WELL TYPE OF TEST PRODUCING METHOD

1-OIL 1-COMPLETION F-FLOWING
 2-GAS 2-RECOMPLETION P-PUMPING
 18 19 20 G-GASLIFT
 3-RETEST

WELL SERIAL NO.	WELL NAME	WELL NO.	NAME OF RESERVOIR
167446	Miller EST.	1	9650

TOTAL DEPTH	PERFORATED INTERVAL FROM	PERFORATED INTERVAL TO	CHOKE /64"	OIL BBL/DAY	COND. BBL/DAY	GAS MCF/DAY	GAS/OIL RATIO CF/BBL
18000	9656	9660	8	101	-	200	110/1

API GRAV. @ 60° F.	WATER BBL/DAY	BS&W %	FLOWING PRES. (PSIG)	CASING PRES. (PSIG)	DATE OF COMPLETION		
					MO.	DAY	YR.
51.0	0	11.0	2150	0	6	12	04

CLOSE TANK/METER GAUGE 19' 1" TIME 7AM
 OPEN TANK/METER GAUGE 10' 0" TIME 7AM
 DIFFERENCE 9' 1" in 24 HOURS
 TANK/METER NO. 53708 TANK COEF. _____

STATIC PRES. 930 DIFFERENTIAL PRES. 2' LINE SIZE 2"
 PLATE SIZE 4.25 COEFFICIENT 1500 METER SPRING & DIFF. RANGE 100

REMARKS _____

WITNESSED BY [Signature] GAUGED BY [Signature]
 TITLE _____ TITLE _____

1. ~~OPERATOR~~
 2. Correction.
8/4/84 Effective Date
yy/mm
9988 Date

AMENDMENT ACTION

- 0.0.9. PARISH
- 0.3.4. FIELD
- 0.3.5. OPERATOR
- 0.1.6. LSE:UN
- 0.1.6. LSE:UN
- 0.1.6. LSE:LSE
- 0.1.6. UN:UN
- 0.1.4. WELL NO.
- 5.2.1. LOCATION

167446 Serial No. IC Date July 17, 1984

CURRENT CODES 012 PARISH Cameron

3000 FIELD Grab Lake

1916 OPERATOR Fortuna Energy Corp.

ADDRESS 2810 Idberly Tower

CITY & STATE Oklahoma City, Ok. 73102

167446 WELL NAME Miller Estate#

LOCATION OF WELL: Sec. 29 T 15S R 5W Former Well No. No. 1 608422

Location Same

*CH 1 RA SWA Miller

Applicable Department of Conservation Order

Robert L. Miller
Commissioner

W. J. Johnson
Issuing Authority

WELL FILE COPY

No. A-C
Jm



OFFICE OF CONSERVATION
WELL HISTORY AND WORK RESUME REPORT

FIELD	Crab Lake
SERIAL NO.	167446
PRODUCING INTERVAL	Plugged & Abandoned
RESERVOIR (COMPANY SAND IDENTIFICATION)	

Three typewritten copies of this report must be filed with the District Office of the Office of Conservation in which the well is located within twenty (20) days of the date of completion. NOTE: If not properly completed and signed this report will be returned.

LEASE AND WELL DATA

CHECK APPROPRIATE BOXES	<input type="checkbox"/> 31 INACTIVE DRY HOLE FUT. UTIL.	PRODUCT	IF RECOMPLETION	DATE COMP. RECOMP. OR P & A M D Y
<input type="checkbox"/> NEW WELL	<input type="checkbox"/> 32 INACTIVE DRY HOLE NO FUT. UTIL.	<input type="checkbox"/> OIL	<input type="checkbox"/> SAME RESERVOIR	●
<input type="checkbox"/> RECOMPLETION	<input type="checkbox"/> 36 INACTIVE WAITING ON PIPELINE	<input type="checkbox"/> GAS	<input type="checkbox"/> DIFFERENT RESERVOIR	
<input checked="" type="checkbox"/> P & A	<input type="checkbox"/> 37 INACTIVE WAITING ON MARKET	<input type="checkbox"/> OTHER		

OPERATOR Fortuna Energy Corporation	CODE 1916	ADDRESS 2810 Liberty Tower, Okla. City, Okla.
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WELL NAME Miller Estate	WELL NO. 1
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PARISH Cameron	SEC. 29 TWP. 15S RGE. 5W	DATE PERMIT ISSUED 10-85 (to P & A)
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DATE SPUNDED ● M D Y	DATE READY TO PRODUCE*	TOTAL DEPTH 18,000	PBTD.
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GROUND ELEVATION	CASING HEAD FLANGE ELEVATION	DISTANCE FROM RKB TO CHF
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DATE WELL TURNED INTO TANKS	SINGLE, DUAL OR TRIPLE COMPLETION?	NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION
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WAS WELL DIRECTIONALLY DRILLED?	WAS DIRECTIONAL SURVEY MADE?	WERE 3 COPIES FILED WITH THE OFFICE OF CONSERVATION?	DATE FILED
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TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH OFFICE OF CONSERVATION)	DATE FILED
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CASING, LINER AND TUBING RECORD

●	CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET		SACKS CEMENT	TEST PRESSURE	HOURS UNDER PRESSURE	DATE TESTED (MM DD YY)	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
				FROM	TO					
101	13 3/8			0	3508		1800			
102	9 5/8	12 1/2	47,53.5	0	12870	1050	3500		5-10-80	
103										
104										
105										

● TUBING SIZE	● DEPTH OF TUBING	● DEPTH OF PACKER(S)
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INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION	GAS VOLUME	GOR	CHOKE SIZE	PRODUCING METHOD
BOPD	MCF/DAY	CF/BBL	/64"	
FLOWING TUBING PRESSURE	SHUT-IN TUBING PRESSURE	CASING PRESSURE	WATER PRODUCTION	BS&W
psig	psig		BPD	%
GRAVITY	BHP (SHUT-IN)	COMPANY REPRESENTATIVE	DATE GAUGED	
*API 60° F	psig			

PLUG AND ABANDON (P & A) DATA

CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
		FROM	TO	SACKS	HOW PLACED		
13 3/8	5'	9650	9926	100	Squeezed	10-9-85	
9 5/8	5'	2600	3000	150	Spotted	10-11-85	
		0	30	10	Dumped	10-11-85	

CERTIFICATE: I, the undersigned, state: That I am employed by Fortuna Energy Corp and that I am authorized to make this report, and that this report was prepared under my supervision and direction and that all facts stated herein are true, correct and complete to the best of my knowledge.

Signature: E. B. Cain Title: Petroleum Engineer

*Date well is equipped to produce, but due to no available market, no pipe line connection, etc.; the well has been shut-in.

WORK RESUME

List below all work performed under Office of Conservation Work Permits while drilling and completing well.

WORK PERMIT NO.	DATE WORK PERFORMED	SERVICE COMPANY	DESCRIPTION OF WORK
1418-85	10-9/11-85	Western	As described on front.

List below all important Paleofaunal or Geological Formation tops, Cap Rock and Salt Overhang bottoms.

FORMATION	DEPTH	FORMATION	DEPTH
	<p>69 : 11</p>		

JAN 23 1986

D. P. OFFICE OF CONSERVATION
 701 FILES
 BATON ROUGE, LA.