

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies <u>District I</u> 1625 N French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO 30-015-35673 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No V-1313
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG							
1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐ b. Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. WELL OVER BACK RESVR. ☐ OTHER ☐	7. Lease Name or Unit Agreement Name State "36" 8. Well No 5 9. Pool name or Wildcat Livingston Ridge, Delaware						
2. Name of Operator Reef Exploration, L.P.							
3. Address of Operator 1901 N Central Expressway, Suite 300, Richardson, Texas 75080							
4. Well Location Unit Letter <u>M</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>36</u> Township <u>22S</u> Range <u>31E</u> NMPM Eddy County							
10. Date Spudded 8-20-2007	11. Date T.D. Reached 8-29-2007	12. Date Compl. (Ready to Prod) 10-29-2007	13. Elevations (DF& RKB, RT, GR, etc.) 3449 GR	14. Elev Casinghead 3452'			
15. Total Depth 8570'	16. Plug Back T.D. 8470'	17. If Multiple Compl. How Many Zones? N/A	18. Intervals Drilled By X	Rotary Tools Cable Tools			
19. Producing Interval(s), of this completion - Top, Bottom, Name Top- 8202' Bottom- 8275' Lower Brushy Canyon				20. Was Directional Survey Made Yes			
21. Type Electric and Other Logs Run Dual Spaced Neutron-Spectral Density/Dual Laterolog/Cmt Bond Log-Csg Collar Log				22. Was Well Cored No			
23. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB /FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
20		40	Conductor	Driven			
13 3/8	48	699	17 1/2	555			
8 5/8	32	4223	11	2175			
5 1/2	17	8570	7 7/8	1030			
24. LINER RECORD			25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
N/A					2 7/8"	8187'	TAC @ 7962'
26. Perforation record (interval, size, and number)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC			
8202-8205, 8208-8212, 8228-8230, 8250-8252, 8273-8275 38 26 SOA				DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED			
8108-8112, 8119-8122, 8126-8130 38 28 SOA				See Attachment			
PRODUCTION							
Date First Production 10/20/2007		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - 25X150 RHBC 24 X 6			Well Status (Prod. or Shut-in) Prod		
Date of Test 10/26/2007	Hours Tested 24	Choke Size N/A	Prod'n For Test Period	Oil - Bbl 80	Gas - MCF 70	Water - Bbl. 201	Gas - Oil Ratio 875:1
Flow Tubing Press. 200	Casing Pressure 80	Calculated 24-Hour Rate	Oil - Bbl. 80	Gas - MCF 70	Water - Bbl. 201	Oil Gravity - API - (Corr.) 37.6	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented						Test Witnessed By Ronald M. Sentz	
30. List Attachments Gas Analysis, copy of Deviation Report (Original Deviation & Logs mailed Overnight on 12/14/07)							
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature <i>Rosalind W. Mercer</i>		Printed Name: Rosalind W. Mercer		Title: Regulatory Analyst		Date: 12/18/2007	
E-mail Address rosaland@reefogc.com							

INSTRUCTIONS

DEC 26 2007



OGD-ARTESIA

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinbry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
0	180	180	Shaly sand				
180	380	200	Sand				
380	580	200	Shaly sand				
580	860	280	Anhydritic sandy dolomite				
860	1060	200	Anhydritic sandy dolomite				
1060	2840	1780	Salt w/anhydrite stringers				
2840	4550	1710	Banded limey anhydrite				
4550	4600	50	Limestone				
4600	4650	50	Limestone				
4650	5277	627	Shaly sand, limey sand base				
5277	5352	75	Sandy dolomite				
5352	7294	1942	Shaly sand				
7294	8312	1028	Cleaner sand, some clay/shale				
8312	8450	138	Limestone & limey shale stringers				



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OCD-ARTESIA

26. PERFORATION RECORD (Intervals, size, and number)

8202-8205, 8208-8212, 8228-8230, 8250-8252, 8273-8275'	.38	26 SOA
8108-8112, 8119-8122, 8126-8130	.38	28 SOA

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

8202-8275'	Acidize w/1300 gals 10% MCA acid & 22 Bio-Balls Fraced w/4,000 gal pad, 5,000 gal Water Frac G-R & 3,700 gals Silver Stim LT-Basic, 42,100 gals Expedite Lite w/ 50,000 lbs 20/40 sand
8108-8130'	Acidize w/1000 gals 10% MCA acid & 20 Bio-Balls

Laboratory Services, Inc.2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

DEC 26 2007
OCD-ARTESIAFOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241SAMPLE:
IDENTIFICATION: State 36 #5
COMPANY: Reef
LEASE:
PLANT:SAMPLE DATA: DATE SAMPLED 10/4/07 2:00 pm
ANALYSIS DATE: 10/5/2007
PRESSURE - PSIG 20
SAMPLE TEMP. °F 80
ATMOS. TEMP. °FGAS (XX) LIQUID ()
SAMPLED BY: Kelly Williams
ANALYSIS BY: Vickie Sullivan

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	2.938	
Carbon Dioxide (CO2)	0.336	
Methane (C1)	66.964	
Ethane (C2)	12.834	3.424
Propane (C3)	8.503	2.337
I-Butane (IC4)	1.238	0.404
N-Butane (NC4)	3.550	1.117
I-Pentane (IC5)	0.946	0.345
N-Pentane (NC5)	0.924	0.334
Hexane Plus (C6+)	1.767	0.767
	100.000	8.728

BTU/CU.FT. - DRY 1432
AT 14.650 DRY 1428
AT 14.650 WET 1403
AT 14.73 DRY 1436
AT 14.73 WET 1411

MOLECULAR WT. 25.0871

SPECIFIC GRAVITY -
CALCULATED 0.862
MEASURED

Gas Analysis Report Input Sheet

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OCD-ARTESIA



Date Sampled	10/4/07 2:00 pm
Analysis Date	10/5/2007
Pressure (PSIG)	20
Sample T °F	80
Atmos. T °F	
Gas/Liquid	
Sampled by:	Kelly Williams
Analysis by:	Vickie Sullivan

Sample ID	
Company	State 36 #5
Lease	Reef
Plant	

Component	Chromatograph Amount	Normalized	GPM (1000's)	Gas Gravity	Dry BTU's Std.Cond.	Molecular Weights
Hydrogen Sulfide				0.000	0	0.0000
Nitrogen	2.938	2.938		0.028	0	0.8229
Carbon Dioxide	0.336	0.336		0.005	0	0.1479
Methane	66.964	66.964		0.371	676	10.7410
Ethane	12.834	12.834	3.424	0.133	227	3.8592
Propane	8.503	8.503	2.337	0.130	214	3.7498
I-Butane	1.238	1.238	0.404	0.025	40	0.7195
N-Butane	3.550	3.550	1.117	0.071	116	2.0633
I-Pentane	0.946	0.946	0.345	0.024	38	0.6825
N-Pentane	0.924	0.924	0.334	0.023	37	0.6667
Hexanes Plus	1.767	1.767	0.767	0.053	84	1.6343
Heptanes Plus		0.000	0.000	0.000	0	0.0000
Total	100.000	100.000	8.728	0.862	1432 Dry BTU's at 14.696	25.0871
w/o H2S	100.000				1428 Dry BTU's at 14.650	
Norm.Factor	1.000	0.000 added to Methane			1403 Wet BTU's at 14.650	
					1436 Dry BTU's at 14.73	
					1411 Wet BTU's at 14.73	

Component	GPM Factors	Spec.Gravit Factors	Dry BTU Factors*	Molecular Weights	Compressibility Factors
Hydrogen Sulfide		1.177	637	34.08	
Nitrogen		0.967	0	28.01	
Carbon Dioxide		1.520	0	44.01	
Methane		0.554	1010	16.04	
Ethane	0.2668	1.038	1770	30.07	
Propane	0.2749	1.523	2516	44.10	
I-Butane	0.3264	2.007	3252	58.12	
N-Butane	0.3146	2.007	3262	58.12	
I-Pentane	0.3650	2.491	4001	72.15	
N-Pentane	0.3613	2.491	4009	72.15	
Hexanes Plus	0.4340	2.976	4756	92.49	
Heptanes Plus	0.4900	3.460	5503	100.20	

*@ 14.696 psia

OPERATOR
WELL/LEASE
COUNTY

REEF EXPLORATION, LP
STATE 36 #5
EDDY

RIG: 512

DEC 26 2007
OCD-ARTESIA

S

STATE OF NEW MEXICO
DEVIATION REPORT

346	0.75
660	1.00
1,084	0.50
1,394	0.50
1,888	1.00
2,371	0.50
2,756	1.00
3,144	1.00
3,587	1.00
4,000	1.75
4,369	2.50
4,799	1.50
5,192	2.00
5,633	1.50
6,064	1.00
6,523	1.00
6,962	1.00
7,436	1.00
7,880	1.50
8,279	1.50

STATE OF TEXAS

COUNTY OF MIDLAND

BY: Steve Moore

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTI Drilling Company LLC.

September 19, 2007, by Steve

Joni D. Hodges
Notary Public for Midland County, Texas
My Commission Expires: 4/11/11

