

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(See other in-
struction on
reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.
NMNM-101106

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

7. UNIT AGREEMENT NAME

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

8. FARM OR LEASE NAME, WELL NO.

Packers Federal #1

2. NAME OF OPERATOR

Mack Energy Corporation

9. API WELL NO.

30-005-64032 0051

3. ADDRESS AND TELEPHONE NO.

P.O. Box 960, Artesia, NM 88211-0960

(575) 748-1288

10. FIELD AND POOL, OR WILDCAT

Round Tank; San Andres

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1675 FNL & 330 FEL

At top prod. interval reported below

1659 FNL & 364 FEL

At total depth

DEC - 3 2008

1684 FNL & 2309 FEL

OCD-ARTESIA

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR
PARISH
Chaves

13. STATE
NM

15. DATE SPUNDED
8/16/2008

16. DATE T.D. REACHED
8/28/2008

17. DATE COMPL. (Ready to prod.)
9/22/2008

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
3796.5' RKB

19. ELEV. CASING HEAD
3779' GR

20. TOTAL DEPTH, MD & TVD
4896'

21. PLUG, BACK T.D., MD & TVD
4690'

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS
DRILLED BY


ROTARY TOOLS
Yes

CABLE TOOLS

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

3,464 - 4896', Round Tank; San Andres

25. WAS DIRECTIONAL
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray

27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	180	17 1/2	325sx	None
8 5/8	32	1814'	12 1/4	1130sx	None
5 1/2	17	4690'	7 7/8	370sx	None

29. LINER RECORD

SIZE	T O P (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	3306'	

30. TUBING RECORD

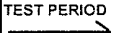
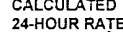
31. PERFORATION RECORD (Interval, size and number)

Interval 3,464-3,971'
Interval 3,971-4,346'
Interval 4,346-4,587'
Interval 4,587-4,896'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3,464-4,896'	See C-103 for details

33. PRODUCTION

DATE FIRST PRODUCTION 10/11/2008		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 2 1/2 x 2 x 16' pump				WELL STATUS (Producing or shut-in) Shut-In	
DATE OF TEST 10/15/2008	HOURS TESTED 24 hours	CHOKE SIZE	PROD'N FOR TEST PERIOD 	OIL-BBL. 14	GAS-MCF. Waiting on Pipeline	WATER-BBL. 441	GAS- OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE 	OIL-BBL. 14	GAS-MCF. Waiting on Pipeline	WATER - BBL. 441	OIL GRAVITY - API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS

Deviation Survey

/S/ DAVID R. GLASS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED



TITLE

Production Clerk

DATE

11/13/2008

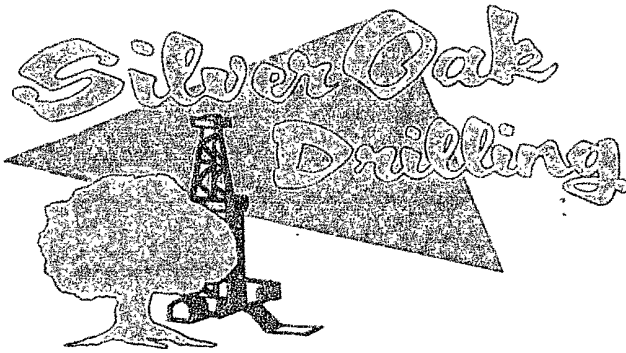
DAVID R. GLASS

PETROLEUM ENGINEER

*(See Instructions and spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Accepted for record - NMOCD



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

September 11, 2008

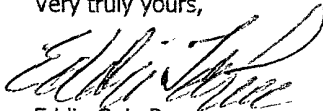
Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: Packers Federal #1
1675' FNL & 330' FEL
Sec. 29, T15S, R29E
Eddy County, New Mexico

Dear Sir,

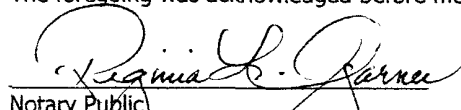
The attached is the Deviation Survey for the above captioned well.

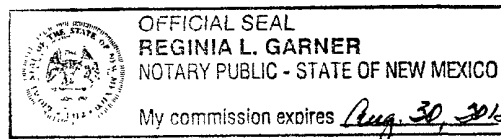
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 11th day of September, 2008.


Notary Public



DEPTH	DEV/INC	AZ
163.00	1.00	
156.00	1.75	
289.00	2.75	
415.00	1.75	
505.00	1.00	
595.00	1.00	
724.00	1.50	
848.00	1.25	
1064.00	1.00	
1280.00	1.00	
1503.00	0.50	
1772.00	1.25	
1867.00	1.67	28.05
2429.00	1.67	178.52
2523.00	1.67	178.43
2709.00	13.37	257.65
2739.00	17.06	258.34
2863.00	31.39	265.86
2894.00	33.41	267.98
2955.00	40.10	267.83
2986.00	43.00	268.33
3017.00	46.43	271.53
3048.00	49.95	271.53
3079.00	53.90	273.43
3109.00	58.39	274.03
3264.00	70.79	272.36
3295.00	74.48	271.93
3326.00	77.73	271.13

DEPTH	DEV/INC	AZ	
3356.00	81.00	270.52	
3387.00	81.95	269.96	
3418.00	83.71	269.42	
3449.00	83.98	269.21	
3480.00	84.15	269.29	
3511.00	83.36	269.16	
3541.00	83.45	268.66	
3696.00	81.95	268.17	
3727.00	81.78	267.55	
3758.00	81.60	268.04	
3789.00	81.69	267.89	
3821.00	81.78	269.09	
3853.00	81.87	269.15	
3915.00	83.01	269.79	
3946.00	83.10	269.61	
3978.00	83.27	269.63	
4010.00	83.45	269.55	
4041.00	83.45	269.41	
4075.00	83.26	268.91	
4104.00	83.19	268.73	3206.00
4292.00	83.12	270.14	
4324.00	83.50	270.30	
4355.00	83.30	269.90	
4385.00	83.00	269.70	
4416.00	83.01	269.40	
4511.00	83.45	270.96	
4761.00	81.95	270.27	3286.60



DIRECTIONAL SURVEY REPORT

MACK ENERGY

PACKERS FED COM #1H

CHAVES COUNTY, NEW MEXICO

PREPARED BY: CODY MEBANE

Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

November 5, 2008

MACK ENERGY
P.O. BOX 960
ARTESIA, NM 88210

RE: MACK ENERGY
PACKERS FED COM #1H
CHAVES COUNTY, NM
RIG: SILVER OAK #2
FIELD: N/A
PES FILE NO.: 101007778-WT-WT

To whom it may concern:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
2 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647

Sincerely,



CODY MEBANE
M/LWD Service Coordinator
PathFinder Energy Services

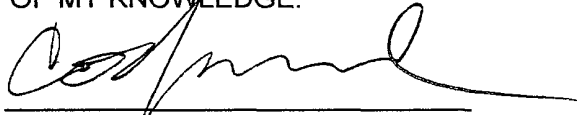
ML:sh

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) MATT SHIPP
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 8/22/08 TO 8/28/08
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: CHAVES COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MACK ENERGY
PACKERS FED COM #1H
CHAVES COUNTY, NM
RIG: SILVER OAK #2
9. SURVEY CERTIFIED FROM: 1867 TO 4761 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1978.86 FEET ON A BEARING OF 269.74 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 4845 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


CODY MEBANE
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 08/17/2008
Date Completed: 08/28/2008

MACK ENERGY CORPORATION
PACKERS FED COM 1H
CHAVES COUNTY, NM
Rig:SILVER OAK 2
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:M. Shipp

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:33.0.51.1092 N LON:104.2.33.2162 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 589132.1000 Y: 732801.1000
North Aligned To:GRID NORTH
Total Magnetic Correction: 8.03° EAST TO GRID
Vertical Section Plane: 269.90
Survey Vert. Reference: 17.00' Kelly Bushing To Ground
Altitude:3779.00' Ground To MSL

Measured Depth	4845.00	(feet)
Inclination	81.95	(deg)
Azimuth	270.27	(deg)
True Vertical Depth	3298.62	(feet)
Vertical Section	1978.85	(feet)
Survey X cord	587153.24	(feet)
Survey Y cord	732792.07	(feet)
Survey Lat	33.01418705 N	(deg)
Survey Lon	104.04901564 W	(deg)
Rectangular Corr. N/S	9.01 S	(feet)
Rectangular Corr. E/W	1978.84 W	(feet)
Closure Distance	1978.86	(feet)
Direction of Closure	269.74	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION

PACKERS FED COM 1H

CHAVES COUNTY, NM

Rig:SILVER OAK 2

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: M. Shipp

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:33.0.51.1092 N LON:104.2.33.2162 W

Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 589132.1000 Y: 732801.1000

North Aligned To:GRID NORTH

Total Magnetic Correction: 8.03° EAST TO GRID

Vertical Section Plane: 269.90

Survey Vert. Reference: 17.00' Kelly Bushing To Ground

Altitude:3779.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE-IN PROVIDED BY SCIENTIFIC DRILLING CONTROLS.										
1790.00	1.48	352.77	1789.57	0.00	23.38	23.58 N	23.42 W	33.23@	315.20	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
1867.00	1.67	280.50	1866.55	77.00	24.61	24.77 N	24.65 W	34.94@	315.14	2.42
1957.00	1.67	248.87	1956.51	90.00	27.12	24.54 N	27.16 W	36.60@	312.09	1.01
2051.00	1.85	229.73	2050.47	94.00	29.56	23.06 N	29.60 W	37.52@	307.93	0.65
2145.00	1.85	232.63	2144.42	94.00	31.92	21.16 N	31.96 W	38.33@	303.51	0.10
2239.00	2.02	188.51	2238.37	94.00	33.38	18.60 N	33.41 W	38.24@	299.11	1.55
2334.00	1.67	181.63	2333.32	95.00	33.67	15.56 N	33.70 W	37.12@	294.79	0.43
2429.00	1.67	178.52	2428.28	95.00	33.68	12.79 N	33.70 W	36.05@	290.79	0.10
2523.00	1.67	178.43	2522.24	94.00	33.61	10.06 N	33.63 W	35.10@	286.65	0.00
2554.00	1.67	178.87	2553.23	31.00	33.59	9.15 N	33.61 W	34.83@	285.23	0.04
2585.00	1.85	193.76	2584.21	31.00	33.70	8.22 N	33.72 W	34.70@	283.69	1.58
2616.00	2.55	216.90	2615.19	31.00	34.24	7.18 N	34.25 W	34.99@	281.84	3.60
2647.00	5.98	243.22	2646.10	31.00	36.10	5.90 N	36.11 W	36.59@	279.28	12.46
2678.00	9.76	252.99	2676.81	31.00	40.06	4.40 N	40.06 W	40.30@	276.27	12.89
2709.00	13.37	257.65	2707.17	31.00	46.07	2.87 N	46.08 W	46.17@	273.56	12.02
2739.00	17.06	258.34	2736.12	30.00	53.78	1.23 N	53.78 W	53.79@	271.31	12.32
2770.00	20.93	257.84	2765.42	31.00	63.65	0.85 S	63.65 W	63.66@	269.23	12.50
2801.00	24.71	258.81	2793.99	31.00	75.43	3.28 S	75.42 W	75.49@	267.51	12.25
2832.00	28.14	261.93	2821.75	31.00	89.03	5.56 S	89.02 W	89.20@	266.43	11.93
2863.00	31.39	265.86	2848.66	31.00	104.33	7.17 S	104.32 W	104.56@	266.07	12.22
2894.00	33.41	267.98	2874.83	31.00	120.92	8.06 S	120.90 W	121.17@	266.19	7.47
2924.00	37.02	267.47	2899.34	30.00	138.20	8.75 S	138.18 W	138.46@	266.38	12.07
2955.00	40.10	267.83	2923.58	31.00	157.51	9.54 S	157.49 W	157.78@	266.54	9.96
2986.00	43.00	268.33	2946.77	31.00	178.05	10.22 S	178.04 W	178.33@	266.71	9.42

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PACKERS FED COM 1H
CHAVES COUNTY, NM
RIG:SILVER OAK 2

Page 02/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
3017.00	46.43	270.22	2968.80	31.00	199.86	10.49 S	199.84 W	200.12@	267.00	11.87
3048.00	49.95	271.53	2989.46	31.00	222.96	10.13 S	222.94 W	223.17@	267.40	11.78
3079.00	53.90	273.43	3008.58	31.00	247.33	9.06 S	247.31 W	247.48@	267.90	13.62
3109.00	58.39	274.03	3025.29	30.00	272.18	7.44 S	272.17 W	272.27@	268.43	15.06
3140.00	62.08	274.43	3040.67	31.00	299.01	5.45 S	299.00 W	299.05@	268.96	11.96
3171.00	65.42	274.28	3054.38	31.00	326.72	3.34 S	326.72 W	326.73@	269.41	10.78
3202.00	67.44	273.33	3066.78	31.00	355.07	1.46 S	355.07 W	355.07@	269.77	7.10
3233.00	69.12	272.72	3078.25	31.00	383.82	0.06 N	383.82 W	383.82@	270.01	5.72
3264.00	70.79	272.36	3088.88	31.00	412.91	1.35 N	412.92 W	412.92@	270.19	5.50
3295.00	74.48	271.93	3098.13	31.00	442.47	2.46 N	442.48 W	442.49@	270.32	11.98
3326.00	77.73	271.13	3105.57	31.00	472.55	3.26 N	472.56 W	472.57@	270.40	10.78
3356.00	80.99	270.52	3111.11	30.00	502.03	3.68 N	502.03 W	502.05@	270.42	11.05
3387.00	81.95	269.96	3115.71	31.00	532.68	3.81 N	532.69 W	532.70@	270.41	3.57
3418.00	83.71	269.42	3119.58	31.00	563.44	3.65 N	563.45 W	563.46@	270.37	5.93
3449.00	83.98	269.21	3122.90	31.00	594.26	3.28 N	594.26 W	594.27@	270.32	1.10
3480.00	84.15	269.29	3126.10	31.00	625.09	2.87 N	625.10 W	625.10@	270.26	0.61
3511.00	83.36	269.16	3129.48	31.00	655.90	2.46 N	655.91 W	655.91@	270.21	2.58
3541.00	83.45	268.66	3132.92	30.00	685.70	1.89 N	685.70 W	685.71@	270.16	1.68
3604.00	81.87	268.30	3140.97	63.00	748.16	0.23 N	748.16 W	748.16@	270.02	2.57
3635.00	81.95	268.18	3145.33	31.00	778.84	0.71 S	778.84 W	778.84@	269.95	0.46
3665.00	81.87	268.06	3149.56	30.00	808.53	1.68 S	808.53 W	808.53@	269.88	0.48
3696.00	81.95	268.17	3153.92	31.00	839.21	2.69 S	839.20 W	839.21@	269.82	0.44
3727.00	81.78	267.55	3158.30	31.00	869.87	3.84 S	869.87 W	869.88@	269.75	2.05
3758.00	81.60	268.04	3162.78	31.00	900.53	5.02 S	900.52 W	900.53@	269.68	1.67
3789.00	81.69	267.89	3167.29	31.00	931.18	6.11 S	931.17 W	931.19@	269.62	0.56
3821.00	81.78	269.09	3171.89	32.00	962.84	6.94 S	962.83 W	962.85@	269.59	3.72

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PACKERS FED COM 1H
CHAVES COUNTY, NM
RIG:SILVER OAK 2

Page 03/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
3853.00	81.87	269.15	3176.44	32.00	994.51	7.43 S	994.50 W	994.53@	269.57	0.34
3884.00	82.13	268.96	3180.75	31.00	1025.20	7.94 S	1025.19 W	1025.22@	269.56	1.04
3915.00	83.01	269.79	3184.76	31.00	1055.94	8.27 S	1055.93 W	1055.96@	269.55	3.89
3946.00	83.10	269.61	3188.51	31.00	1086.72	8.43 S	1086.70 W	1086.74@	269.56	0.65
3978.00	83.27	269.63	3192.31	32.00	1118.49	8.64 S	1118.48 W	1118.51@	269.56	0.53
4010.00	83.45	269.55	3196.01	32.00	1150.27	8.87 S	1150.26 W	1150.29@	269.56	0.61
4041.00	83.45	269.41	3199.54	31.00	1181.07	9.15 S	1181.06 W	1181.09@	269.56	0.45
4073.00	83.27	268.91	3203.25	32.00	1212.85	9.62 S	1212.84 W	1212.88@	269.55	1.65
4104.00	83.19	268.73	3206.90	31.00	1243.63	10.25 S	1243.62 W	1243.66@	269.53	0.63
4135.00	83.10	268.79	3210.60	31.00	1274.40	10.92 S	1274.39 W	1274.43@	269.51	0.35
4167.00	83.10	268.90	3214.44	32.00	1306.17	11.56 S	1306.15 W	1306.20@	269.49	0.34
4198.00	83.54	270.36	3218.05	31.00	1336.95	11.75 S	1336.94 W	1336.99@	269.50	4.89
4230.00	83.62	270.60	3221.63	32.00	1368.75	11.49 S	1368.73 W	1368.78@	269.52	0.79
4260.00	83.62	270.31	3224.96	30.00	1398.57	11.25 S	1398.55 W	1398.59@	269.54	0.96
4292.00	83.62	270.14	3228.52	32.00	1430.37	11.13 S	1430.35 W	1430.39@	269.55	0.53
4324.00	83.54	270.31	3232.10	32.00	1462.17	11.00 S	1462.15 W	1462.19@	269.57	0.58
4355.00	83.27	269.91	3235.66	31.00	1492.96	10.94 S	1492.94 W	1492.98@	269.58	1.55
4385.00	83.01	269.69	3239.24	30.00	1522.75	11.05 S	1522.73 W	1522.77@	269.58	1.13
4416.00	83.01	269.38	3243.01	31.00	1553.51	11.30 S	1553.50 W	1553.54@	269.58	0.99
4511.00	83.45	270.95	3254.21	95.00	1647.85	11.02 S	1647.83 W	1647.87@	269.62	1.70
4573.00	83.27	270.21	3261.38	62.00	1709.43	10.40 S	1709.41 W	1709.44@	269.65	1.22
4634.00	82.13	270.19	3269.13	61.00	1769.93	10.19 S	1769.92 W	1769.94@	269.67	1.87
4666.00	82.04	270.52	3273.54	32.00	1801.62	9.99 S	1801.61 W	1801.64@	269.68	1.06
4698.00	81.87	270.21	3278.02	32.00	1833.31	9.79 S	1833.29 W	1833.32@	269.69	1.10
4729.00	81.95	270.48	3282.38	31.00	1864.00	9.61 S	1863.99 W	1864.01@	269.70	0.90
4761.00	81.95	270.27	3286.86	32.00	1895.68	9.40 S	1895.67 W	1895.69@	269.72	0.65

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PACKERS FED COM 1H
CHAVES COUNTY, NM
RIG:SILVER OAK 2

Page 04/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
STRAIGHT-LINE PROJECTIO.								
4845.00	81.95	270.27	3298.62	84.00	1978.85	9.01 S 1978.84 W	1978.86@ 269.74	0.00

SCIENTIFIC DRILLING CONTROLS

PACKERS FEDERAL SURVEY

Directional Survey Report

for

MACX ENERGY

Well Number	:	PACKERS FEDERAL #1
Well Location	:	CHAVES COUNTY, NEW MEXICO
Job Number	:	32F0802248
Location Latitude	:	32.890
Survey Date	:	22-AUG-2008
S.D.C. Personnel	:	ANGEL MADRID
Length Units	:	Feet
North Reference	:	GRID North
Grid Correction	:	-0.16 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	269.90
Calculation Method	:	Minimum Curvature

Remarks : The Survey will be called definitive

SCIENTIFIC DRILLING CONTROLS

Output Survey

for

Page 1

BACK ENERGY

Well No.: FAUKERS FEDERAL #1

Date: 22-JUN-2002

Job No.: 32K80602

SEID

Process: 1 of 1

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	Grimuth Deg.	Latitude (Feet)	Longitude (Feet)	Depth /100
-------------------	--------------------	------------------	-------------	-----------------	----------------------	-----------------------	---------------

0.00	0.00	0.00	0.00	359.84	0.00	0.00	0.00
100.00	99.93	1.11	1.75	317.19	1.04	-1.11	1.75
200.00	199.92	2.32	2.28	306.47	2.27	-3.63	0.58
300.00	299.84	7.00	2.30	309.03	5.69	-7.01	0.07
400.00	399.77	9.50	2.17	319.55	8.37	-9.31	0.47
500.00	499.73	11.80	0.99	295.13	10.17	-11.82	1.34
600.00	599.71	13.32	1.01	301.93	11.00	-13.34	0.12
700.00	699.70	14.97	1.09	300.18	11.87	-14.89	0.08
800.00	799.68	16.54	1.12	297.75	12.74	-16.56	0.07
900.00	899.66	18.11	0.96	302.30	13.84	-18.14	0.13
1000.00	999.65	19.35	0.74	309.20	14.60	-19.41	0.22
1100.00	1099.64	20.44	0.68	300.87	15.21	-20.47	0.08
1200.00	1199.64	21.29	0.55	311.63	15.83	-21.32	0.16
1300.00	1299.63	21.85	0.48	325.79	16.49	-21.91	0.13
1400.00	1399.63	22.28	0.42	332.80	17.16	-22.31	0.08
1500.00	1499.62	22.64	0.67	341.33	18.05	-22.67	0.26
1600.00	1599.62	22.97	0.91	349.24	19.36	-23.00	0.26
1700.00	1699.59	23.18	1.37	356.92	21.35	-23.22	0.48
1790.00	1789.57	23.38	1.48	352.77	23.58	-23.42	0.17

The Horizontal Displacement (in Feet) at
Measured Depth 1790.00 is 23.23 in a Direction of 315.19 Degrees

N.M. Oil Cons. Div-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

JUL 10 2008

Form 3-66-3
(April 2004)



FORM APPROVED
OMB No 1004-0137
Expires March 31 2007

CCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a Type of work- ☒ DRILL ☐ REENTER		5 Lease Serial No. NMNM-101106
1b Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6 If Indian, Allottee or Tribe Name
2 Name of Operator Mack Energy Corporation		7 If Unit or CA Agreement, Name and No
3a Address P.O. Box 960 Artesia, NM 88211-0960		8, Lease Name and Well No. Packers Federal #1
3b Phone No. (include area code) (505)748-1288		9 API Well No. 30-005-64032
4 Location of Well (Report location clearly and accurately with any State requirements*) At surface 1675 FNL & 330 FEL At proposed prod zone 1675 FNL & 2310 FEL ROSWELL CONTROLLED WATER BASIN		10 Field and Pool, or Exploratory Round Tank; San Andres
14 Distance in miles and direction from nearest town or post office* 14 miles north/northwest of Loco Hills, NM		11 Sec, T, R, M or Blk and Survey or Area Sec. 29 T15S R29E
15 Distance from proposed location* location to nearest property or lease line, ft (Also to nearest dril unit line, if any) 330	16 No of acres in lease 1088.70	17 Spacing Unit dedicated to this well 80
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft N/A	19 Proposed Depth 4737	20 BLM/BIA Bond No on file NMB000286
21 Elevations (Show whether DF, KDB, RT, GL, etc) 3779' GR	22 Approximate date work will start* 4/30/08	23 Estimated duration 15 days

24 Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form:

- | | |
|---|--|
| 1 Well plat certified by a registered surveyor | 4 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above), |
| 2 A Drilling Plan. | 5 Operator certification |
| 3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) | 6 Such other site specific information and/or plans as may be required by the authorized officer |

25 Signature <i>Jerry W. Sherrell</i>	Name (Printed/Typed) Jerry W. Sherrell	Date 4/3/08
Title Production Clerk		
Approved by (Signature) <i>Angel Mayes</i>	Name (Printed/Typed) 151 Angel Mayes	Date JUL 09 2008
Title Assistant Field Manager, Lands And Minerals	Office ROSWELL FIELD OFFICE	APPROVED FOR 2 YEARS

Application approval does not warrant or certify that the applicant holds legal equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon
Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*(Instructions on page 2)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

mk

RECEIVED

MAR 26 2008

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT I

1625 N. FRENCH DR., HOBBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources DepartmentOIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-005-64032	Pool Code 52770	Pool Name Round Tank; San Andres
Property Code 37261	Property Name PACKERS FEDERAL	Well Number 1
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3779'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	15-S	29-E		1675	NORTH	330	EAST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	29	15-S	29-E		1675	NORTH	2310	EAST	CHAVES

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

BOTTOM HOLE LOCATION Y=723797.5 N X=587152.4 E SEE DETAIL 3772.9' 3777.8' 3785.5' 3791.2' 600' 600' 1675' 1675' 330' 2310' GRD AZ = 269°53'36" HORZ DIST = 1980.0' GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=723801.1 N X=589132.1 E LAT. = 32.989460° N LONG. = 104.042641° W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Jerry W. Sherrall</i> 4/3/08 Signature Date Jerry W. Sherrall Printed Name SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. DATE SURVEYED: MARCH 15, 2008 Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i> Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
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