

Submit 1 Copy To Appropriate District Office
District I- (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II- (575) 748-1283
1301 W. Grand Ave., Artesia, NM 88210
District III- (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV- (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-40930
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No. Fee
7. Lease Name or Unit Agreement Name Mammoth Fee
8. Well Number 1
9. OGRID Number 013837
10. Pool Name or Wildcat Cass Draw; Bone Spring

11. Elevation (Show whether DR, RKB, RT, GR etc.) 3105'
--

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR, USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐
2. Name of Operator Mack Energy Corporation
3. Address of Operator P.O. Box 960 Artesia, NM 88210
4. Well Location Unit Letter <u>K</u> <u>2560</u> feet from the <u>South</u> line and <u>2440</u> feet from the <u>West</u> line Section <u>3</u> Township <u>23S</u> Range <u>27E</u> NMPM County <u>Eddy</u>
11. Elevation (Show whether DR, RKB, RT, GR etc.) 3105'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIALWORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

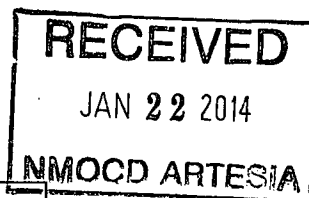
Mack Energy Corporation proposes to move location from UL J 2310 FSL & 2310 FEL to UL K 2560 FSL & 2440 FWL. This well will be directionally drilled to a TD of 9385' at a BHL of 2285 FSL & 2285 FEL. We will be completing this well in the Cass Draw; Bone Spring formation.

Casing as follows:

Surface Drill a 17 1/2 hole to 400', run 13 3/8 H-40 48# casing and cement w/470sx Class C.

Intermediate Drill a 12 1/4 hole to 2,000', run 8 5/8 J-55 32# casing and cement w/1000sx Class C.

Production Drill a 7 7/8 hole to 9385', run 5 1/2 L-80 17# casing and cement w/1300sx Class C.



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Deana Weaver

TITLE Production Clerk

DATE 1/21/14

Type or print name Deana Weaver

E-mail address: dweaver@mec.com

PHONE: 575-748-1288

For State Use Only

APPROVED BY:

T. C. Shepard

TITLE

"Geologist"

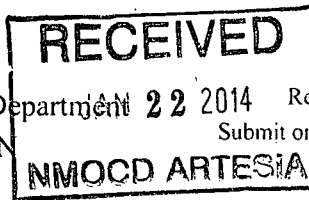
DATE

1-22-2014

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-9720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1253 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40930	² Pool Code 10380	³ Pool Name Cass Draw; Bone Spring
⁴ Property Code 39599	⁵ Property Name MAMMOTH FEE	⁶ Well Number 1
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3105.6

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	3	23 S	27 E		2560	SOUTH	2440	WEST	EDDY

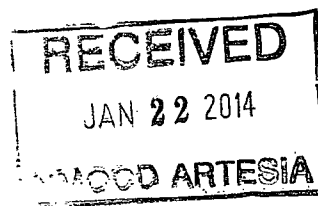
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	23 S	27 E		2285	SOUTH	2285	EAST	EDDY

¹² Dedicated Acres 80.40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

N89°29'41"E 2652.18 FT NW CORNER SEC. 3 LAT. = 32°20'29.059"N LONG. = 104°11'11.218"W NMSP EAST (FT) N = 487966.38 E = 586700.21 L4		N O CORNER SEC. 3 LAT. = 32°20'29.254"N LONG. = 104°10'40.311"W NMSP EAST (FT) N = 487989.76 E = 589351.67 L3		NE CORNER SEC. 3 LAT. = 32°20'29.452"N LONG. = 104°10'09.412"W NMSP EAST (FT) N = 488013.72 E = 592002.35 L2		N89°28'55"E 2651.41 FT E Q CORNER SEC. 3 LAT. = 32°20'03.395"N LONG. = 104°10'10.090"W NMSP EAST (FT) N = 485380.53 E = 591948.20 L1					
NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN DEGREES, MINUTES AND DECIMAL SECONDS FORMAT. LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.				¹⁶ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Deana Weaver</i> 1.21.14 Signature Date Deana Weaver Printed Name dweaver@mec.com E-mail Address							
W O CORNER SEC. 3 LAT. = 32°20'03.290"N LONG. = 104°11'11.777"W NMSP EAST (FT) N = 485362.27 E = 586655.89 L4				W O CORNER SEC. 3 LAT. = 32°20'02.599"N (NAD83) LONG. = 104°10'43.353"W NMSP EAST (FT) N = 485295.82 E = 589094.54 L3				W O CORNER SEC. 3 LAT. = 32°19'37.197"N LONG. = 104°11'12.340"W NMSP EAST (FT) N = 482725.43 E = 586611.17 L4			
SW CORNER SEC. 3 LAT. = 32°19'37.197"N LONG. = 104°11'12.340"W NMSP EAST (FT) N = 482725.43 E = 586611.17 L4				S O CORNER SEC. 3 LAT. = 32°19'37.275"N LONG. = 104°10'41.811"W NMSP EAST (FT) N = 482736.97 E = 589230.57 L3				SE CORNER SEC. 3 LAT. = 32°19'37.344"N LONG. = 104°10'10.761"W NMSP EAST (FT) N = 482747.89 E = 591894.67 L1			
N00°58'30"E 2605.09 FT		N00°58'18"E 2637.83 FT		S01°10'41"W 2634.36 FT		S01°09'54"W 2633.80 FT					
¹⁷ 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. JANUARY 10 2014 NEW MEXICO Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number FIRMONT JARVIS/LOPLS 12797 SURVEY NO. 13778											



Mack Energy Corp

Eddy County

Mammoth Fee #1

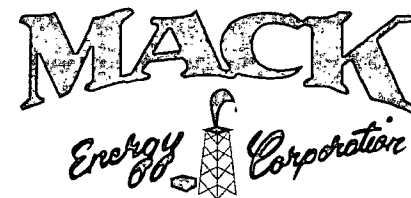
Fee #1

#1

Plan: Plan #1

MEC Survey Report

21 January, 2014





MEC
MEC Survey Report



Company:	Mack Energy Corp	Local Co-ordinate Reference:	Site Mammoth Fee #1
Project:	Eddy County	TVD Reference:	WELL @ 3123.1usft (Original Well Elev)
Site:	Mammoth Fee #1	MD Reference:	WELL @ 3123.1usft (Original Well Elev)
Well:	Fee #1	North Reference:	Grid
Wellbore:	#1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Project:	Eddy County		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Mammoth Fee #1				
Site Position:		Northing:	485,295.82 usft	Latitude:	32° 20' 1.912 N
From:	Map	Easting:	589,094.54 usft	Longitude:	104° 2' 41.558 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well:	Fee #1					
Well Position	+N-S	0.0 usft	Northing:	485,295.82 usft	Latitude:	32° 20' 1.912 N
	+E-W	0.0 usft	Easting:	589,094.54 usft	Longitude:	104° 2' 41.558 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,105.6 usft	

Wellbore:	#1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/21/2014	7.49	60.17	48,421

Design:	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	115.93	

Survey Tool Program	Date	1/21/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,384.8	Plan #1 (#1)		



MEC
MEC Survey Report



Company: Mack Energy Corp
Project: Eddy County
Site: Mammoth Fee #1
Well: Fee #1
Wellbore: #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Site Mammoth Fee #1
WELL @ 3123.1usft (Original Well Elev)
WELL @ 3123.1usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
2,050.0	0.00	0.00	2,050.0	0.0	0.0	0.0	0.00	485,295.82	589,094.54
2,100.0	3.75	115.93	2,100.0	-0.7	1.5	1.6	7.50	485,295.10	589,096.01
2,150.0	7.50	115.93	2,149.7	-2.9	5.9	6.5	7.50	485,292.96	589,100.42
2,200.0	11.25	115.93	2,199.0	-6.4	13.2	14.7	7.50	485,289.40	589,107.74
2,250.0	15.00	115.93	2,247.7	-11.4	23.4	26.0	7.50	485,284.44	589,117.95
2,262.8	15.96	115.93	2,260.0	-12.9	26.5	29.4	7.50	485,282.95	589,121.02



MEC
MEC Survey Report



Company: Mack Energy Corp
Project: Eddy County
Site: Mammoth Fee #1
Well: Fee #1
Wellbore: #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Site Mammoth Fee #1
WELL @ 3123.1usft (Original Well Elev)
WELL @ 3123.1usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc: (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,300.0	15.96	115.93	2,295.8	-17.3	35.7	39.7	0.00	485,278.47	589,130.22
2,400.0	15.96	115.93	2,392.0	-29.4	60.4	67.2	0.00	485,266.45	589,154.95
2,500.0	15.96	115.93	2,488.1	-41.4	85.1	94.7	0.00	485,254.43	589,179.67
2,600.0	15.96	115.93	2,584.3	-53.4	109.9	122.2	0.00	485,242.41	589,204.40
2,700.0	15.96	115.93	2,680.4	-65.4	134.6	149.6	0.00	485,230.39	589,229.12
2,800.0	15.96	115.93	2,776.6	-77.5	159.3	177.1	0.00	485,218.37	589,253.85
2,900.0	15.96	115.93	2,872.7	-89.5	184.0	204.6	0.00	485,206.34	589,278.57
3,000.0	15.96	115.93	2,968.9	-101.5	208.8	232.1	0.00	485,194.32	589,303.30
3,100.0	15.96	115.93	3,065.0	-113.5	233.5	259.6	0.00	485,182.30	589,328.02
3,200.0	15.96	115.93	3,161.1	-125.5	258.2	287.1	0.00	485,170.28	589,352.75
3,300.0	15.96	115.93	3,257.3	-137.6	282.9	314.6	0.00	485,158.26	589,377.47
3,400.0	15.96	115.93	3,353.4	-149.6	307.7	342.1	0.00	485,146.24	589,402.20
3,500.0	15.96	115.93	3,449.6	-161.6	332.4	369.6	0.00	485,134.22	589,426.93
3,600.0	15.96	115.93	3,545.7	-173.6	357.1	397.1	0.00	485,122.19	589,451.65
3,700.0	15.96	115.93	3,641.9	-185.6	381.8	424.6	0.00	485,110.17	589,476.38
3,800.0	15.96	115.93	3,738.0	-197.7	406.6	452.1	0.00	485,098.15	589,501.10
3,900.0	15.96	115.93	3,834.2	-209.7	431.3	479.6	0.00	485,086.13	589,525.83
4,000.0	15.96	115.93	3,930.3	-221.7	456.0	507.1	0.00	485,074.11	589,550.55
4,100.0	15.96	115.93	4,026.5	-233.7	480.7	534.5	0.00	485,062.09	589,575.28
4,200.0	15.96	115.93	4,122.6	-245.8	505.5	562.0	0.00	485,050.07	589,600.00
4,300.0	15.96	115.93	4,218.8	-257.8	530.2	589.5	0.00	485,038.04	589,624.73
4,322.1	15.96	115.93	4,240.0	-260.4	535.6	595.6	0.00	485,035.39	589,630.18
4,350.0	13.86	115.93	4,267.0	-263.6	542.1	602.8	7.50	485,032.25	589,636.65
4,400.0	10.11	115.93	4,315.9	-268.1	551.4	613.2	7.50	485,027.71	589,645.99
4,450.0	6.36	115.93	4,365.3	-271.2	557.9	620.3	7.50	485,024.58	589,652.43
4,500.0	2.61	115.93	4,415.2	-273.0	561.4	624.2	7.50	485,022.87	589,655.95
4,534.8	0.00	0.00	4,450.0	-273.3	562.1	625.0	7.50	485,022.52	589,656.66



MEC
MEC Survey Report



Company: Mack Energy Corp
Project: Eddy County
Site: Mammoth Fee #1
Well: Fee #1
Wellbore: #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Site Mammoth Fee #1
WELL @ 3123.1usft (Original Well Elev)
WELL @ 3123.1usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,600.0	0.00	0.00	4,515.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
4,700.0	0.00	0.00	4,615.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
4,800.0	0.00	0.00	4,715.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
4,900.0	0.00	0.00	4,815.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,000.0	0.00	0.00	4,915.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,100.0	0.00	0.00	5,015.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,200.0	0.00	0.00	5,115.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,300.0	0.00	0.00	5,215.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,400.0	0.00	0.00	5,315.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,500.0	0.00	0.00	5,415.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,600.0	0.00	0.00	5,515.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,700.0	0.00	0.00	5,615.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,800.0	0.00	0.00	5,715.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
5,900.0	0.00	0.00	5,815.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,000.0	0.00	0.00	5,915.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,100.0	0.00	0.00	6,015.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,200.0	0.00	0.00	6,115.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,300.0	0.00	0.00	6,215.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,400.0	0.00	0.00	6,315.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,500.0	0.00	0.00	6,415.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,600.0	0.00	0.00	6,515.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,700.0	0.00	0.00	6,615.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,800.0	0.00	0.00	6,715.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
6,900.0	0.00	0.00	6,815.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,000.0	0.00	0.00	6,915.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,100.0	0.00	0.00	7,015.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,200.0	0.00	0.00	7,115.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66



MEC
MEC Survey Report



Company: Mack Energy Corp
Project: Eddy County
Site: Mammoth Fee #1
Well: Fee #1
Wellbore: #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Site Mammoth Fee #1
WELL @ 3123.1usft (Original Well Elev)
WELL @ 3123.1usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

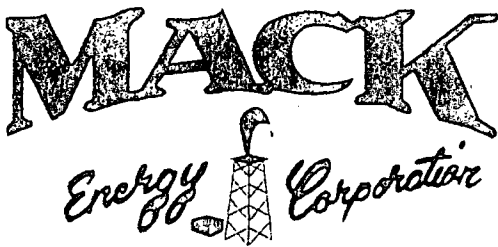
Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,300.0	0.00	0.00	7,215.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,400.0	0.00	0.00	7,315.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,500.0	0.00	0.00	7,415.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,600.0	0.00	0.00	7,515.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,700.0	0.00	0.00	7,615.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,800.0	0.00	0.00	7,715.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
7,900.0	0.00	0.00	7,815.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,000.0	0.00	0.00	7,915.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,100.0	0.00	0.00	8,015.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,200.0	0.00	0.00	8,115.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,300.0	0.00	0.00	8,215.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,400.0	0.00	0.00	8,315.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,500.0	0.00	0.00	8,415.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,600.0	0.00	0.00	8,515.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,700.0	0.00	0.00	8,615.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,800.0	0.00	0.00	8,715.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
8,900.0	0.00	0.00	8,815.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
9,000.0	0.00	0.00	8,915.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
9,100.0	0.00	0.00	9,015.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
9,200.0	0.00	0.00	9,115.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
9,300.0	0.00	0.00	9,215.2	-273.3	562.1	625.0	0.00	485,022.52	589,656.66
9,384.8	0.00	0.00	9,300.0	-273.3	562.1	625.0	0.00	485,022.52	589,656.66

Checked By: _____

Approved By: _____

Date: _____



SITE DETAILS: Mammoth Fee #1	
Site Centre Northing:	485295.82
Easting:	589094.54
Positional Uncertainty:	0.0
Convergence:	0.15
Local North:	Grid

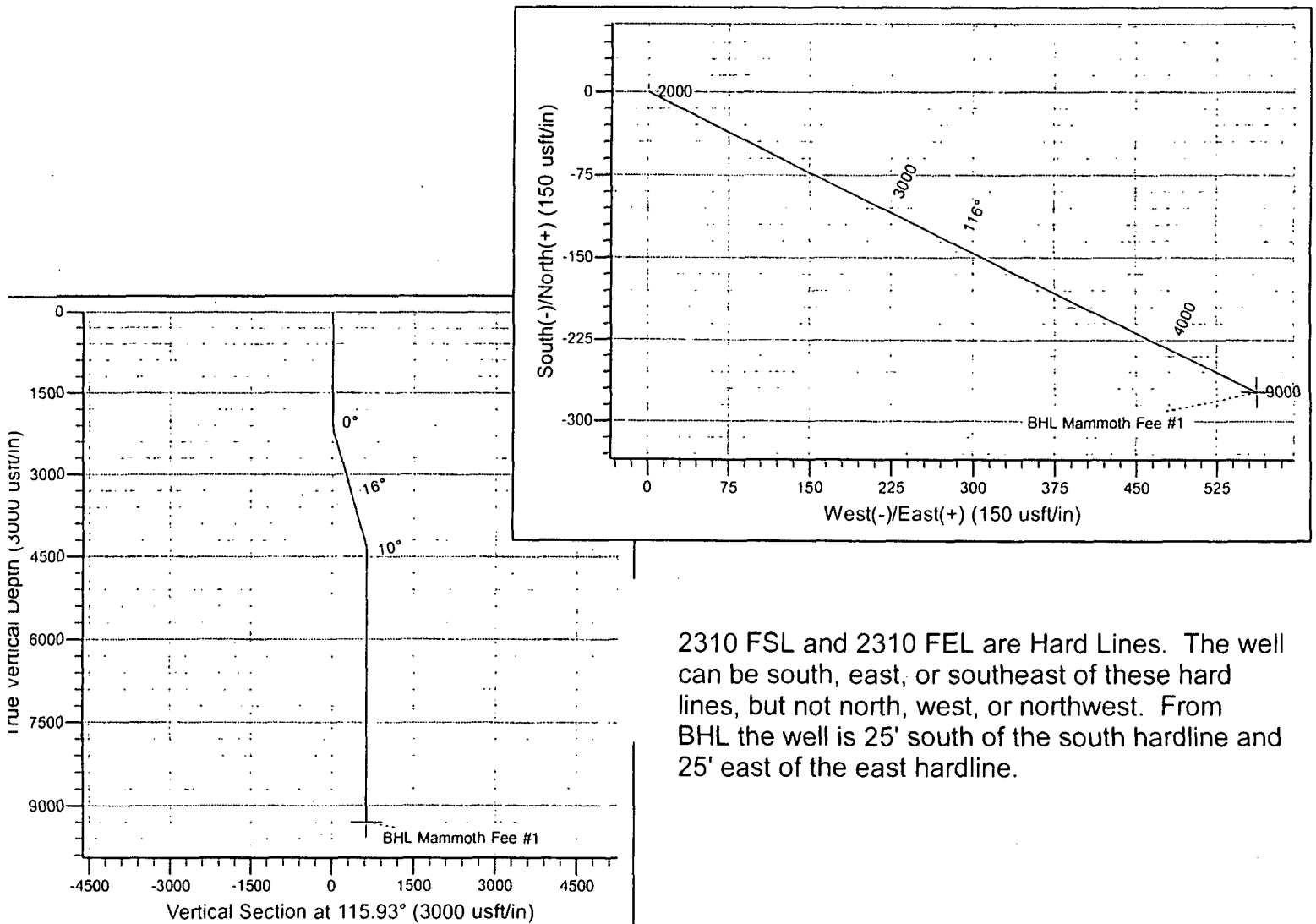
T G M

Azimuths to Grid North
 True North: -0.15°
 Magnetic North: 7.33°

Magnetic Field
 Strength: 48420.8snT
 Dip Angle: 60.17°
 Date: 1/21/2014
 Model: IGRF200510

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2050.0	0.00	0.00	2050.0	0.0	0.0	0.00	0.00	0.0	
3	2262.8	15.96	115.93	2260.0	-12.9	26.5	7.50	115.93	29.4	
4	4322.1	15.96	115.93	4240.0	-260.4	535.6	0.00	0.00	595.6	
5	4534.8	0.00	0.00	4450.0	-273.3	562.1	7.50	180.00	625.0	
6	9384.8	0.00	0.00	9300.0	-273.3	562.1	0.00	0.00	625.0	BHL Mammoth Fee #1

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
BHL Mammoth Fee #1	9300.0	-273.3	562.1	485022.52	589656.62	42° 19' 59.1921 N	104° 2' 35.014 W	Point	- plan hits target center



2310 FSL and 2310 FEL are Hard Lines. The well can be south, east, or southeast of these hard lines, but not north, west, or northwest. From BHL the well is 25' south of the south hardline and 25' east of the east hardline.