

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
June 19, 2008

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED
NOV 10 7 2017

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.)		WELL API NO. 30-005-64191
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No. VB-2254
3. Address of Operator P.O. Box 960 Artesia, NM 88210		7. Lease Name or Unit Agreement Name Markham State Com 319933
4. Well Location Unit Letter <u>P</u> <u>330</u> feet from the <u>South</u> line and <u>990</u> feet from the <u>East</u> line Section <u>23</u> Township <u>15S</u> Range <u>28E</u> NMPM County <u>Chaves, NM</u>		8. Well Number 1H
11. Elevation (Show whether DR, RKB, RT, GR etc.) 3574' GR		9. OGRID Number 013837
		10. Pool Name or Wildcat Round Tank; San Andres

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: ☐

OTHER: Name Change/ Drill Horizontal ☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mack Energy Corporation is proposing to change the name of the Winnipeg State #1 location to the Markham State Com #1H. The location is located in the SESE Sec. 23 T15S R28E.

The Markham State Com #1H will be drilled as a horizontal San Andres well. The total depth of this well is 8600', TVD is 2910'. SHL 330 FSL 990 FEL SESE Sec. 23 T15S R28E, BHL 2370 FNL 965 FEL SENE Sec. 35 T15S R28R.

Casing Program: Surface Drill 17 1/2" hole to 170' run 13 3/8" J-55 48# ST&C, new csg/cmt w/ 100sx RFC + 12% PF53+2%PF1+5ppsPF42+.125ppsPF29, Density 14.4-Yield 1.61, H2O mix 7.357. 200sx Class C+1%PF1, Density 14.8-Yield 1.34, H2O 6.323. C/B/T safety factors 8.719834/4.706714/4.74.

Intermediate Drill 12 1/4" hole to 1,500' run 9 5/8" J-55 36# ST&C, new csg/cmt 710sx Class C+1%PF1, Density 14.8-Yield 1.34 H2O mix 6.323. C/B/T safety factors 2.538964/7.266722/7.04.

Production Drill 8 3/4" hole to 8600' run 7" 0-2800' 26# HCP-110 LT&C, C/B/T safety factors 5.04144/3.365671/3.316667. 5 1/2" 2800-8600' 17# HCP-110 Buttress, C/B/T safety factors 5.539218/3.712699/3.599069. New csg/cmt 525sx Class "C" 4% PF20+4 pps PF45+125pps PF29, Density 13.2-Yield 1.84 H2O mix 9.914. 1385sx PVL+1.3 (BWOW) PF44+5%PF174+.5%PF606+.1%PF153+.4ppsPF44, Density 13-Yield 1.48 H2O mix 7.577.

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

11-16-17

Type or print name Deana Weaver

E-mail address: dweaver@mec.com

PHONE: (575)748-1288

For State Use Only

APPROVED BY:

Raymond M. Polansky

TITLE

Geologist

DATE

11-9-17

Conditions of Approval (if any):

NM OIL CONSERVATION

District I
1625 N. French Dr., Hobbs NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 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 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 30-005-64191	2 Pool Code 52770	3 Pool Name Round Tank; San Andres
4 Property Code 40378 319933	5 Property Name MARKHAM STATE COM	
6 OGRID No. 13837	7 Operator Name MACK ENERGY CORPORATION	
		8 Well Number 1H
		9 Elevation 3574.0

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	15 S	28 E		330	SOUTH	990	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
H	35	15 S	28 E		2370	NORTH	965	EAST	CHAVES

12 Dedicated Acres 240 280	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.

17 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 undivided 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.

Deana Weaver 11/6/17
Signature Date

Deana Weaver

Printed Name

dweaver@mec.com

Email Address

18 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.

JUNE 22, 2017

Date of Survey

FELIX F. JARAMILLO

NEW MEXICO

2777

Signature and Seal of Professional Surveyor

Certificate Number FELIX F. JARAMILLO PL# 12797

SURVEY NO. 2061A



Mack Energy

**Chaves County
Sec 23 T15S R28E
Markham State Com #1H**

Wellbore #1

Plan: Plan #1

Standard Planning Report

02 November, 2017

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 07 2017

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Integrity Directional Services, LLC

Planning Report



Database: EDM 5000.1 Multi User Db
Company: Mack Energy
Project: Chaves County
Site: Sec 23 T15S R28E
Well: Markham State Com #1H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Markham State Com #1H
TVD Reference: KB=17.5 @ 3591.50ft
MD Reference: KB=17.5 @ 3591.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Chaves County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 23 T15S R28E		
Site Position:		Northing:	726,224.2800 usft
From:	Map	Easting:	612,464.1300 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32° 59' 46.240182 N
		Longitude:	104° 6' 4.826721 W
		Grid Convergence:	0.13 °

Well	Markham State Com #1H		
Well Position	+N/-S	-366.38 ft	Northing:
	+E/-W	1,296.60 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32° 59' 42.586391 N
		Longitude:	104° 5' 49.611734 W
		Ground Level:	3,574.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/2/2017	7.42	60.68	48,308

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	2,910.78	0.00	0.00	179.55

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,319.04	0.00	0.00	2,319.04	0.00	0.00	0.00	0.00	0.00	0.00	
3,217.04	89.80	179.55	2,892.00	-570.94	4.48	10.00	10.00	0.00	179.55	
8,598.04	89.80	179.55	2,910.78	-5,951.74	46.75	0.00	0.00	0.00	0.00	



Integrity Directional Services, LLC
Planning Report



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Company: Mack Energy
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Well: Markham State Com #1H
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TVD Reference: KB=17.5 @ 3591.50ft
MD Reference: KB=17.5 @ 3591.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,319.04	0.00	0.00	2,319.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP BLD 10°/100'									
2,350.00	3.10	179.55	2,349.98	-0.84	0.01	0.84	10.00	10.00	0.00
2,400.00	8.10	179.55	2,399.73	-5.71	0.04	5.71	10.00	10.00	0.00
2,450.00	13.10	179.55	2,448.86	-14.90	0.12	14.90	10.00	10.00	0.00
2,500.00	18.10	179.55	2,497.01	-28.34	0.22	28.34	10.00	10.00	0.00
2,550.00	23.10	179.55	2,543.80	-45.92	0.36	45.92	10.00	10.00	0.00
2,600.00	28.10	179.55	2,588.87	-67.52	0.53	67.52	10.00	10.00	0.00
2,650.00	33.10	179.55	2,631.90	-92.96	0.73	92.96	10.00	10.00	0.00
2,700.00	38.10	179.55	2,672.54	-122.05	0.96	122.05	10.00	10.00	0.00
2,750.00	43.10	179.55	2,710.50	-154.57	1.21	154.58	10.00	10.00	0.00
2,800.00	48.10	179.55	2,745.47	-190.28	1.49	190.29	10.00	10.00	0.00
2,850.00	53.10	179.55	2,777.20	-228.90	1.80	228.91	10.00	10.00	0.00
2,900.00	58.10	179.55	2,805.44	-270.14	2.12	270.15	10.00	10.00	0.00
2,950.00	63.10	179.55	2,829.98	-313.69	2.46	313.70	10.00	10.00	0.00
3,000.00	68.10	179.55	2,850.64	-359.20	2.82	359.21	10.00	10.00	0.00
3,050.00	73.10	179.55	2,867.24	-406.35	3.19	406.36	10.00	10.00	0.00
3,100.00	78.10	179.55	2,879.68	-454.76	3.57	454.77	10.00	10.00	0.00
3,150.00	83.10	179.55	2,887.84	-504.07	3.96	504.08	10.00	10.00	0.00
3,200.00	88.10	179.55	2,891.68	-553.90	4.35	553.92	10.00	10.00	0.00
3,217.04	89.80	179.55	2,892.00	-570.94	4.48	570.96	10.00	10.00	0.00
EOB HLD 89.8° Inc.									
3,300.00	89.80	179.55	2,892.29	-653.90	5.14	653.92	0.00	0.00	0.00
3,400.00	89.80	179.55	2,892.63	-753.89	5.92	753.92	0.00	0.00	0.00
3,500.00	89.80	179.55	2,892.98	-853.89	6.71	853.92	0.00	0.00	0.00
3,600.00	89.80	179.55	2,893.33	-953.89	7.49	953.91	0.00	0.00	0.00
3,700.00	89.80	179.55	2,893.68	-1,053.88	8.28	1,053.91	0.00	0.00	0.00
3,800.00	89.80	179.55	2,894.03	-1,153.88	9.06	1,153.91	0.00	0.00	0.00
3,900.00	89.80	179.55	2,894.38	-1,253.87	9.85	1,253.91	0.00	0.00	0.00
4,000.00	89.80	179.55	2,894.73	-1,353.87	10.63	1,353.91	0.00	0.00	0.00



Integrity Directional Services, LLC

Planning Report



Database: EDM 5000.1 Multi User Db
Company: Mack Energy
Project: Chaves County
Site: Sec 23 T15S R28E
Well: Markham State Com #1H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Markham State Com #1H
TVD Reference: KB=17.5 @ 3591.50ft
MD Reference: KB=17.5 @ 3591.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,100.00	89.80	179.55	2,895.08	-1,453.87	11.42	1,453.91	0.00	0.00	0.00
4,200.00	89.80	179.55	2,895.43	-1,553.86	12.20	1,553.91	0.00	0.00	0.00
4,300.00	89.80	179.55	2,895.78	-1,653.86	12.99	1,653.91	0.00	0.00	0.00
4,400.00	89.80	179.55	2,896.12	-1,753.86	13.78	1,753.91	0.00	0.00	0.00
4,500.00	89.80	179.55	2,896.47	-1,853.85	14.56	1,853.91	0.00	0.00	0.00
4,600.00	89.80	179.55	2,896.82	-1,953.85	15.35	1,953.91	0.00	0.00	0.00
4,700.00	89.80	179.55	2,897.17	-2,053.84	16.13	2,053.91	0.00	0.00	0.00
4,800.00	89.80	179.55	2,897.52	-2,153.84	16.92	2,153.91	0.00	0.00	0.00
4,900.00	89.80	179.55	2,897.87	-2,253.84	17.70	2,253.91	0.00	0.00	0.00
5,000.00	89.80	179.55	2,898.22	-2,353.83	18.49	2,353.91	0.00	0.00	0.00
5,100.00	89.80	179.55	2,898.57	-2,453.83	19.27	2,453.91	0.00	0.00	0.00
5,200.00	89.80	179.55	2,898.92	-2,553.83	20.06	2,553.91	0.00	0.00	0.00
5,300.00	89.80	179.55	2,899.27	-2,653.82	20.84	2,653.90	0.00	0.00	0.00
5,400.00	89.80	179.55	2,899.62	-2,753.82	21.63	2,753.90	0.00	0.00	0.00
5,500.00	89.80	179.55	2,899.96	-2,853.82	22.41	2,853.90	0.00	0.00	0.00
5,600.00	89.80	179.55	2,900.31	-2,953.81	23.20	2,953.90	0.00	0.00	0.00
5,700.00	89.80	179.55	2,900.66	-3,053.81	23.99	3,053.90	0.00	0.00	0.00
5,800.00	89.80	179.55	2,901.01	-3,153.80	24.77	3,153.90	0.00	0.00	0.00
5,900.00	89.80	179.55	2,901.36	-3,253.80	25.56	3,253.90	0.00	0.00	0.00
6,000.00	89.80	179.55	2,901.71	-3,353.80	26.34	3,353.90	0.00	0.00	0.00
6,100.00	89.80	179.55	2,902.06	-3,453.79	27.13	3,453.90	0.00	0.00	0.00
6,200.00	89.80	179.55	2,902.41	-3,553.79	27.91	3,553.90	0.00	0.00	0.00
6,300.00	89.80	179.55	2,902.76	-3,653.79	28.70	3,653.90	0.00	0.00	0.00
6,400.00	89.80	179.55	2,903.11	-3,753.78	29.48	3,753.90	0.00	0.00	0.00
6,500.00	89.80	179.55	2,903.46	-3,853.78	30.27	3,853.90	0.00	0.00	0.00
6,600.00	89.80	179.55	2,903.80	-3,953.77	31.05	3,953.90	0.00	0.00	0.00
6,700.00	89.80	179.55	2,904.15	-4,053.77	31.84	4,053.90	0.00	0.00	0.00
6,800.00	89.80	179.55	2,904.50	-4,153.77	32.62	4,153.90	0.00	0.00	0.00
6,900.00	89.80	179.55	2,904.85	-4,253.76	33.41	4,253.89	0.00	0.00	0.00
7,000.00	89.80	179.55	2,905.20	-4,353.76	34.20	4,353.89	0.00	0.00	0.00
7,100.00	89.80	179.55	2,905.55	-4,453.76	34.98	4,453.89	0.00	0.00	0.00
7,200.00	89.80	179.55	2,905.90	-4,553.75	35.77	4,553.89	0.00	0.00	0.00
7,300.00	89.80	179.55	2,906.25	-4,653.75	36.55	4,653.89	0.00	0.00	0.00
7,400.00	89.80	179.55	2,906.60	-4,753.75	37.34	4,753.89	0.00	0.00	0.00
7,500.00	89.80	179.55	2,906.95	-4,853.74	38.12	4,853.89	0.00	0.00	0.00
7,600.00	89.80	179.55	2,907.29	-4,953.74	38.91	4,953.89	0.00	0.00	0.00
7,700.00	89.80	179.55	2,907.64	-5,053.73	39.69	5,053.89	0.00	0.00	0.00
7,800.00	89.80	179.55	2,907.99	-5,153.73	40.48	5,153.89	0.00	0.00	0.00
7,900.00	89.80	179.55	2,908.34	-5,253.73	41.26	5,253.89	0.00	0.00	0.00
8,000.00	89.80	179.55	2,908.69	-5,353.72	42.05	5,353.89	0.00	0.00	0.00
8,100.00	89.80	179.55	2,909.04	-5,453.72	42.83	5,453.89	0.00	0.00	0.00
8,200.00	89.80	179.55	2,909.39	-5,553.72	43.62	5,553.89	0.00	0.00	0.00
8,300.00	89.80	179.55	2,909.74	-5,653.71	44.41	5,653.89	0.00	0.00	0.00
8,400.00	89.80	179.55	2,910.09	-5,753.71	45.19	5,753.89	0.00	0.00	0.00
8,500.00	89.80	179.55	2,910.44	-5,853.70	45.98	5,853.89	0.00	0.00	0.00
8,598.04	89.80	179.55	2,910.78	-5,951.74	46.75	5,951.92	0.00	0.00	0.00

TD at 8598.04 - BHL Markham State Com #1H



Integrity Directional Services, LLC

Planning Report



Database: EDM 5000.1 Multi User Db
Company: Mack Energy
Project: Chaves County
Site: Sec 23 T15S R28E
Well: Markham State Com #1H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Markham State Com #1H
TVD Reference: KB=17.5 @ 3591.50ft
MD Reference: KB=17.5 @ 3591.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name

- hit/miss target
- Shape

Dip Angle
(°)

Dip Dir.
(°)

TVD
(ft)

+N/-S
(ft)

+E/-W
(ft)

Northing
(usft)

Easting
(usft)

Latitude

Longitude

BHL Markham State Cor 0.00 0.00 2,910.78 -5,951.74 46.75 719,906.1719 613,807.4799 32° 58' 43.694329 N 104° 5' 49.219743 W
- plan hits target center
- Point

Plan Annotations

Measured
Depth
(ft)

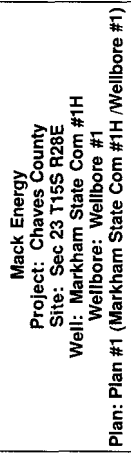
Vertical
Depth
(ft)

Local Coordinates
+N/-S
(ft)

+E/-W
(ft)

Comment

2,319.04	2,319.04	0.00	0.00	KOP BLD 10°/100'
3,217.04	2,892.00	-570.94	4.48	EOB HLD 89.8° Inc.
8,598.04	2,910.78	-5,951.74	46.75	TD at 8598.04



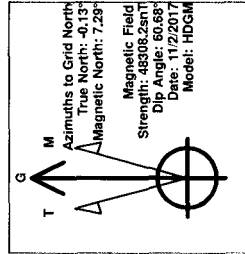
PROJECT DETAILS: Chaves County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

WELL DETAILS: Markham State Cor #1H

Ground Elevation: 3574.00			
RKB Elevation: KB=17.5 @ 3591.50ft			
Rig Name:			
	East	Latitude	Longitude
North	613760.7300	59 42 58.9495 N	611734 W
725857.9000			

DESIGN TARGET DETAILS					
Name	TK-5	ICW			
Bldg.	Manshar Stn	0608100			447.9
	-50% N/A				
	-plan not target center				

Section Details										
	MD	Inc	Azi	TYD	+N-S	+E-W	Disq	TFace	VSpec	Annotation
	2319.04	0.00	0.00	2315.04	0.00	0.00	0.00	0.00	0.00	KOP HLD 10/100'
	2317.64	89.80	179.55	2882.50	-572.94	4.48	10.00	179.55	572.96	EOR HLD 80.3' Inc.
	8598.04	89.80	179.55	2818.78	-59511.74	46.75	0.00	0.00	9957.83	T.D. at 8598.04



INTEGRITY
Directional Services

