

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC029415B
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701		7. If Unit or CA/Agreement, Name and/or No
3b. Phone No (include area code) Ph: 432-685-4384		8. Well Name and No PUCKETT 13 FEDERAL COM 7H
4. Location of Well (Footage, Sec, T., R., M., or Survey Description) Sec 13 T17S R31E NENE 83FNL 970FEL		9. API Well No 30-015-39178-00-X1
		10. Field and Pool, or Exploratory FREN
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

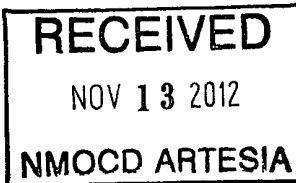
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

COG Operating LLC respectfully requests permission to change the Horizontal TVD Depth.

FROM: 6600'
TO: 6500'

A revised directional plan is attached for your review.

Accepted for record
NMOCD 10/11/12/2012

14. I hereby certify that the foregoing is true and correct	
Electronic Submission #156258 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 10/29/2012 (13KMS3641SE)	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 10/24/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ	Title PETROLEUM ENGINEER	Date 11/12/2012
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Archer

COG Operating, LLC

Eddy County(NM27E)

Sec.13-T17S-R31E

Puckett 13 Federal Com #7H

Wellbore #1

Plan: Design #1

Standard Planning Report

12 October, 2012



Database: EDMDBBW
Company: COG Operating, LLC
Project: Eddy County(NM27E)
Site: Sec.13-T17S-R31E
Well: Puckett 13 Federal #7H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Puckett 13 Federal #7H
TVD Reference: WELL @ 3980.0usft (Original Well Elev)
MD Reference: WELL @ 3980.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County(NM27E), Surface Location: 915'FSL & 400'FWL, Top of Paddock 4000'TVD		
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	Sec.13-T17S-R31E		
Site Position:		Northing:	670,270.30 usft
From:	Map	Easting:	658,534.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 50' 29.738 N
		Longitude:	103° 49' 1.766 W
		Grid Convergence:	0.28 "

Well	Puckett 13 Federal #7H		
Well Position	+N-S	0.0 usft	Northing: 670,270.30 usft
	+E-W	0.0 usft	Easting: 658,534.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 50' 29.738 N
		Longitude:	103° 49' 1.766 W
		Ground Level:	3,963.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/12/12	7.58	60.68	48,824

Design	Design #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	179.79

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,979.2	0.00	0.00	5,979.2	0.0	0.0	0.00	0.00	0.00	0.00	
6,806.5	91.00	179.79	6,500.0	-530.0	2.0	11.00	11.00	0.00	179.79	Puckett 13 FED 7H PI
11,134.4	91.00	179.79	6,424.5	-4,857.2	18.0	0.00	0.00	0.00	0.00	Puckett 13 FED 7H PI

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP/ Build 11.00									
5,979.2	0.00	0.00	5,979.2	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	2.29	179.79	6,000.0	-0.4	0.0	0.4	11.00	11.00	0.00
6,050.0	7.79	179.79	6,049.8	-4.8	0.0	4.8	11.00	11.00	0.00
6,100.0	13.29	179.79	6,098.9	-13.9	0.1	13.9	11.00	11.00	0.00
6,150.0	18.79	179.79	6,147.0	-27.8	0.1	27.8	11.00	11.00	0.00
6,200.0	24.29	179.79	6,193.4	-46.1	0.2	46.1	11.00	11.00	0.00
6,250.0	29.79	179.79	6,238.0	-68.8	0.3	68.8	11.00	11.00	0.00
6,300.0	35.29	179.79	6,280.1	-95.7	0.4	95.7	11.00	11.00	0.00
6,350.0	40.79	179.79	6,319.5	-126.5	0.5	126.5	11.00	11.00	0.00
6,400.0	46.29	179.79	6,355.7	-160.9	0.6	160.9	11.00	11.00	0.00
6,450.0	51.79	179.79	6,388.5	-198.7	0.7	198.7	11.00	11.00	0.00
6,500.0	57.29	179.79	6,417.5	-239.4	0.9	239.4	11.00	11.00	0.00
6,550.0	62.79	179.79	6,442.4	-282.7	1.0	282.7	11.00	11.00	0.00
6,600.0	68.29	179.79	6,463.1	-328.2	1.2	328.2	11.00	11.00	0.00
6,650.0	73.79	179.79	6,479.4	-375.4	1.4	375.4	11.00	11.00	0.00
6,700.0	79.29	179.79	6,491.0	-424.1	1.6	424.1	11.00	11.00	0.00
6,750.0	84.79	179.79	6,497.9	-473.6	1.8	473.6	11.00	11.00	0.00
6,800.0	90.29	179.79	6,500.1	-523.5	1.9	523.5	11.00	11.00	0.00
EOC/Start 4327.9 hold at 6806.5 MD									
6,806.5	91.00	179.79	6,500.0	-530.0	2.0	530.0	11.00	11.00	0.00
6,900.0	91.00	179.79	6,498.4	-623.5	2.3	623.5	0.00	0.00	0.00
7,000.0	91.00	179.79	6,496.6	-723.5	2.7	723.5	0.00	0.00	0.00
7,100.0	91.00	179.79	6,494.9	-823.4	3.1	823.4	0.00	0.00	0.00
7,200.0	91.00	179.79	6,493.1	-923.4	3.4	923.4	0.00	0.00	0.00
7,300.0	91.00	179.79	6,491.4	-1,023.4	3.8	1,023.4	0.00	0.00	0.00
7,400.0	91.00	179.79	6,489.6	-1,123.4	4.2	1,123.4	0.00	0.00	0.00
7,500.0	91.00	179.79	6,487.9	-1,223.4	4.5	1,223.4	0.00	0.00	0.00
7,600.0	91.00	179.79	6,486.1	-1,323.4	4.9	1,323.4	0.00	0.00	0.00
7,700.0	91.00	179.79	6,484.4	-1,423.3	5.3	1,423.4	0.00	0.00	0.00
7,800.0	91.00	179.79	6,482.7	-1,523.3	5.6	1,523.3	0.00	0.00	0.00
7,900.0	91.00	179.79	6,480.9	-1,623.3	6.0	1,623.3	0.00	0.00	0.00
8,000.0	91.00	179.79	6,479.2	-1,723.3	6.4	1,723.3	0.00	0.00	0.00
8,100.0	91.00	179.79	6,477.4	-1,823.3	6.8	1,823.3	0.00	0.00	0.00
8,200.0	91.00	179.79	6,475.7	-1,923.3	7.1	1,923.3	0.00	0.00	0.00
8,300.0	91.00	179.79	6,473.9	-2,023.2	7.5	2,023.3	0.00	0.00	0.00
8,400.0	91.00	179.79	6,472.2	-2,123.2	7.9	2,123.2	0.00	0.00	0.00
8,500.0	91.00	179.79	6,470.4	-2,223.2	8.2	2,223.2	0.00	0.00	0.00
8,600.0	91.00	179.79	6,468.7	-2,323.2	8.6	2,323.2	0.00	0.00	0.00
8,700.0	91.00	179.79	6,466.9	-2,423.2	9.0	2,423.2	0.00	0.00	0.00
8,800.0	91.00	179.79	6,465.2	-2,523.2	9.4	2,523.2	0.00	0.00	0.00
8,900.0	91.00	179.79	6,463.5	-2,623.2	9.7	2,623.2	0.00	0.00	0.00
9,000.0	91.00	179.79	6,461.7	-2,723.1	10.1	2,723.2	0.00	0.00	0.00
9,100.0	91.00	179.79	6,460.0	-2,823.1	10.5	2,823.1	0.00	0.00	0.00
9,200.0	91.00	179.79	6,458.2	-2,923.1	10.8	2,923.1	0.00	0.00	0.00
9,300.0	91.00	179.79	6,456.5	-3,023.1	11.2	3,023.1	0.00	0.00	0.00
9,400.0	91.00	179.79	6,454.7	-3,123.1	11.6	3,123.1	0.00	0.00	0.00

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.0	91.00	179.79	6,453.0	-3,223.1	11.9	3,223.1	0.00	0.00	0.00
9,600.0	91.00	179.79	6,451.2	-3,323.0	12.3	3,323.1	0.00	0.00	0.00
9,700.0	91.00	179.79	6,449.5	-3,423.0	12.7	3,423.0	0.00	0.00	0.00
9,800.0	91.00	179.79	6,447.7	-3,523.0	13.1	3,523.0	0.00	0.00	0.00
9,900.0	91.00	179.79	6,446.0	-3,623.0	13.4	3,623.0	0.00	0.00	0.00
10,000.0	91.00	179.79	6,444.3	-3,723.0	13.8	3,723.0	0.00	0.00	0.00
10,100.0	91.00	179.79	6,442.5	-3,823.0	14.2	3,823.0	0.00	0.00	0.00
10,200.0	91.00	179.79	6,440.8	-3,922.9	14.5	3,923.0	0.00	0.00	0.00
10,300.0	91.00	179.79	6,439.0	-4,022.9	14.9	4,023.0	0.00	0.00	0.00
10,400.0	91.00	179.79	6,437.3	-4,122.9	15.3	4,122.9	0.00	0.00	0.00
10,500.0	91.00	179.79	6,435.5	-4,222.9	15.6	4,222.9	0.00	0.00	0.00
10,600.0	91.00	179.79	6,433.8	-4,322.8	16.0	4,322.9	0.00	0.00	0.00
10,700.0	91.00	179.79	6,432.0	-4,422.9	16.4	4,422.9	0.00	0.00	0.00
10,800.0	91.00	179.79	6,430.3	-4,522.8	16.8	4,522.9	0.00	0.00	0.00
10,900.0	91.00	179.79	6,428.5	-4,622.8	17.1	4,622.9	0.00	0.00	0.00
11,000.0	91.00	179.79	6,426.8	-4,722.8	17.5	4,722.8	0.00	0.00	0.00
11,100.0	91.00	179.79	6,425.1	-4,822.8	17.9	4,822.8	0.00	0.00	0.00
TD at 11134.4									
11,134.4	91.00	179.79	6,424.5	-4,857.2	18.0	4,857.2	0.00	0.00	0.00

Design Targets

Target Name

- hits/miss target

- Shape

Dip Angle (°)

Dip Dir. (°)

TVD (usft)

+N-S (usft)

+E-W (usft)

Northing (usft)

Easting (usft)

Latitude

Longitude

Puckett 13 FED 7H PBH
- plan hits target center
- Point

0.00 0.00 6,424.5 -4,857.2 18.0 665,413.10 658,552.00 32° 49' 41.675 N 103° 49' 1.833 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
5,979.2	5,979.2	0.0	0.0	KOP/ Build 11.00
6,806.5	6,500.0	-530.0	2.0	EOC/Start 4327.9 hold at 6806.5 MD
11,134.4	6,424.5	-4,857.2	18.0	TD at 11134.4



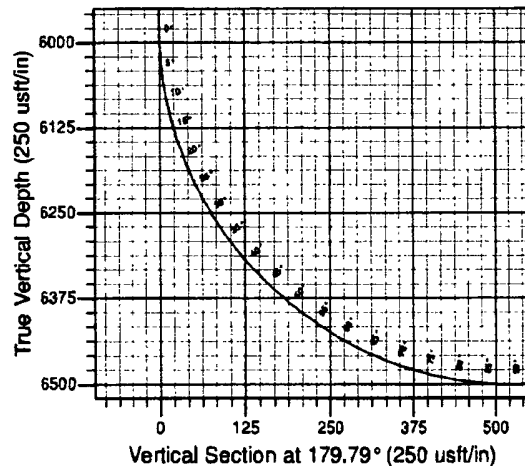
Project: Eddy County(NM27E)
 Site: Sec.13-T17B-R31E
 Well: Puckett 13 Federal #7H
 Wellbore: Wellbore #1
 Design: Design #1
 Lat: 32° 50' 29.738 N
 Long: 103° 49' 1.766 W
 GL: 3883.0
 KB: WELL @ 3960.Dust#1 (Original Well Elev)

Archer

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5979.2	0.00	0.00	5979.2	0.0	0.0	0.00	0.00	0.0	KOP/ Build 11.00
5806.5	91.00	179.79	5806.5	-530.0	2.0	11.00	179.79	530.0	EOC/Start 4327.9 hold at 5806.5 MD
11134.4	91.00	179.79	8424.5	-4857.2	18.0	0.00	0.00	4857.2	TD at 11134.4

WELL DETAILS: Puckett 13 Federal #7H							
+N-S	+E-W	Northing	Ground Level:	Latitude	Longitude	Spot	
0.0	0.0	570270.30	3883.0	32° 50' 29.738 N	103° 49' 1.766 W		

WELLBORE TARGET DETAILS (LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape	Point
Puckett 13 FED 7H PBHL	8424.5	-4857.2	18.0	32° 49' 41.575 N	103° 49' 1.833 W		



PROJECT DETAILS: Eddy County(NM27E)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

SITE DETAILS: Sec.13-T17B-R31E
 Site Centre Latitude: 32° 50' 29.738 N
 Longitude: 103° 49' 1.766 W
 Positional Uncertainty: 0.0
 Contourance: 0.28
 Local North: Grid

