

OCD - HOBBS
08/17/2020
RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator [6137]		8. Lease Name and Well No. [328242]
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-025-47567
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory [97088][96672]
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		19. Proposed Depth
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval 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.
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.

GCP Rec 08/17/2020

APPROVED WITH CONDITIONS
Approval Date: 08/11/2020

Kz
08/24/2020

SL

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to a new evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: NENW / 317 FNL / 1860 FWL / TWSP: 26S / RANGE: 35E / SECTION: 6 / LAT: 32.078767 / LONG: -103.409126 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 1 / 100 FNL / 1000 FWL / TWSP: 26S / RANGE: 35E / SECTION: 6 / LAT: 32.079367 / LONG: -103.411902 (TVD: 11827 feet, MD: 11868 feet)

PPP: LOT 1 / 1 FNL / 1000 FWL / TWSP: 26S / RANGE: 35E / SECTION: 7 / LAT: 32.065077 / LONG: -103.411897 (TVD: 12400 feet, MD: 17300 feet)

PPP: LOT 3 / 1 FNL / 1000 FWL / TWSP: 26S / RANGE: 35E / SECTION: 7 / LAT: 32.057655 / LONG: -103.411896 (TVD: 12400 feet, MD: 20000 feet)

BHL: LOT 2 / 2620 FNL / 1000 FWL / TWSP: 26S / RANGE: 35E / SECTION: 18 / LAT: 32.043407 / LONG: -103.411893 (TVD: 12400 feet, MD: 25183 feet)

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48.0	H40	STC	0	1143	0	1143
9 7/8	8 5/8	32.0	P110	TLW	0	11010	0	11010
7 7/8	5 1/2	17.0	P110	BTC	0	25183	0	12400

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	866	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	636	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	636	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	79	10510	9.0	3.3	Lead: Class H / C + additives
	1762	11868	13.2	1.4	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure	
			Blind Ram	X		
			Pipe Ram			
			Double Ram	X		
			Other*			
Production	13-5/8"	10M	Annular (5M)	X	100% of rated working pressure	
			Blind Ram	X		
			Pipe Ram			
			Double Ram	X		
			Other*			
			Annular (5M)			
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
Y	A variance is requested to run a 5 M annular on a 10M system					

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	8.5-9

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned	Interval
	Resistivity
	Density
X	CBL
X	Mud log
	PEX

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5803
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 06-T26S-R35E

Billiken 6-18 Fed Com 9H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

28 May, 2020

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Project	Lea County (NAD83 New Mexico East)		
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 06-T26S-R35E				
Site Position:	Northing:	393,923.40 usft	Latitude:	32.079648	
From: Map	Easting:	825,728.90 usft	Longitude:	-103.415129	
Position Uncertainty:	5.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	Billiken 6-18 Fed Com 9H					
Well Position	+N/-S	0.00 ft	Northing:	393,618.70 usft	Latitude:	32.078767
	+E/-W	0.00 ft	Easting:	827,591.10 usft	Longitude:	-103.409126
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,279.60 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/28/2020	6.55	59.92	47,567.10555329

Design	Permit Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	183.32

Plan Survey Tool Program	Date	5/28/2020		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	25,183.40 Permit Plan 1 (Wellbore #1)	MWD+HDGM OWSG MWD + HDGM	

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,549.71	5.50	277.75	2,548.86	3.55	-26.11	1.00	1.00	0.00	277.75	
11,151.49	5.50	277.75	11,111.09	114.63	-842.59	0.00	0.00	0.00	0.00	
11,517.96	0.00	0.00	11,477.00	117.00	-860.00	1.50	-1.50	0.00	180.00	
11,868.00	0.00	0.00	11,827.04	117.00	-860.00	0.00	0.00	0.00	0.00	
12,768.01	90.00	179.50	12,400.00	-455.94	-855.04	10.00	10.00	0.00	179.50	PBHL - Billiken 6-18 F
25,183.40	90.00	179.50	12,400.00	-12,870.87	-747.46	0.00	0.00	0.00	0.00	PBHL - Billiken 6-18 F

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
100.00	0.00	0.00	100.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
200.00	0.00	0.00	200.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
300.00	0.00	0.00	300.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
400.00	0.00	0.00	400.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
500.00	0.00	0.00	500.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
600.00	0.00	0.00	600.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
700.00	0.00	0.00	700.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
800.00	0.00	0.00	800.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
900.00	0.00	0.00	900.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	393,618.70	827,591.10	32.078767	-103.409126	
2,100.00	1.00	277.75	2,099.99	0.12	-0.86	393,618.82	827,590.23	32.078767	-103.409129	
2,200.00	2.00	277.75	2,199.96	0.47	-3.46	393,619.17	827,587.64	32.078768	-103.409137	
2,300.00	3.00	277.75	2,299.86	1.06	-7.78	393,619.76	827,583.32	32.078770	-103.409151	
2,400.00	4.00	277.75	2,399.68	1.88	-13.83	393,620.58	827,577.27	32.078772	-103.409171	
2,500.00	5.00	277.75	2,499.37	2.94	-21.60	393,621.64	827,569.49	32.078775	-103.409196	
2,549.71	5.50	277.75	2,548.86	3.55	-26.11	393,622.25	827,564.99	32.078777	-103.409210	
2,600.00	5.50	277.75	2,598.93	4.20	-30.88	393,622.90	827,560.22	32.078779	-103.409226	
2,700.00	5.50	277.75	2,698.47	5.49	-40.38	393,624.19	827,550.72	32.078783	-103.409256	
2,800.00	5.50	277.75	2,798.01	6.78	-49.87	393,625.48	827,541.23	32.078787	-103.409287	
2,900.00	5.50	277.75	2,897.55	8.08	-59.36	393,626.77	827,531.74	32.078790	-103.409317	
3,000.00	5.50	277.75	2,997.09	9.37	-68.85	393,628.07	827,522.25	32.078794	-103.409348	
3,100.00	5.50	277.75	3,096.63	10.66	-78.34	393,629.36	827,512.76	32.078798	-103.409379	
3,200.00	5.50	277.75	3,196.17	11.95	-87.84	393,630.65	827,503.26	32.078802	-103.409409	
3,300.00	5.50	277.75	3,295.71	13.24	-97.33	393,631.94	827,493.77	32.078805	-103.409440	
3,400.00	5.50	277.75	3,395.25	14.53	-106.82	393,633.23	827,484.28	32.078809	-103.409470	
3,500.00	5.50	277.75	3,494.79	15.82	-116.31	393,634.52	827,474.79	32.078813	-103.409501	
3,600.00	5.50	277.75	3,594.33	17.12	-125.80	393,635.81	827,465.30	32.078817	-103.409532	
3,700.00	5.50	277.75	3,693.87	18.41	-135.30	393,637.11	827,455.80	32.078821	-103.409562	
3,800.00	5.50	277.75	3,793.41	19.70	-144.79	393,638.40	827,446.31	32.078824	-103.409593	
3,900.00	5.50	277.75	3,892.95	20.99	-154.28	393,639.69	827,436.82	32.078828	-103.409623	
4,000.00	5.50	277.75	3,992.49	22.28	-163.77	393,640.98	827,427.33	32.078832	-103.409654	
4,100.00	5.50	277.75	4,092.03	23.57	-173.26	393,642.27	827,417.84	32.078836	-103.409685	
4,200.00	5.50	277.75	4,191.57	24.86	-182.76	393,643.56	827,408.34	32.078839	-103.409715	
4,300.00	5.50	277.75	4,291.11	26.15	-192.25	393,644.85	827,398.85	32.078843	-103.409746	
4,400.00	5.50	277.75	4,390.65	27.45	-201.74	393,646.14	827,389.36	32.078847	-103.409776	
4,500.00	5.50	277.75	4,490.19	28.74	-211.23	393,647.44	827,379.87	32.078851	-103.409807	
4,600.00	5.50	277.75	4,589.73	30.03	-220.72	393,648.73	827,370.38	32.078855	-103.409838	
4,700.00	5.50	277.75	4,689.27	31.32	-230.22	393,650.02	827,360.88	32.078858	-103.409868	
4,800.00	5.50	277.75	4,788.81	32.61	-239.71	393,651.31	827,351.39	32.078862	-103.409899	
4,900.00	5.50	277.75	4,888.35	33.90	-249.20	393,652.60	827,341.90	32.078866	-103.409930	
5,000.00	5.50	277.75	4,987.89	35.19	-258.69	393,653.89	827,332.41	32.078870	-103.409960	
5,100.00	5.50	277.75	5,087.43	36.49	-268.18	393,655.18	827,322.92	32.078873	-103.409991	
5,200.00	5.50	277.75	5,186.97	37.78	-277.68	393,656.48	827,313.42	32.078877	-103.410021	
5,300.00	5.50	277.75	5,286.51	39.07	-287.17	393,657.77	827,303.93	32.078881	-103.410052	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDSO Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,400.00	5.50	277.75	5,386.05	40.36	-296.66	393,659.06	827,294.44	32.078885	-103.410083	
5,500.00	5.50	277.75	5,485.59	41.65	-306.15	393,660.35	827,284.95	32.078888	-103.410113	
5,600.00	5.50	277.75	5,585.13	42.94	-315.64	393,661.64	827,275.45	32.078892	-103.410144	
5,700.00	5.50	277.75	5,684.67	44.23	-325.14	393,662.93	827,265.96	32.078896	-103.410174	
5,800.00	5.50	277.75	5,784.21	45.53	-334.63	393,664.22	827,256.47	32.078900	-103.410205	
5,900.00	5.50	277.75	5,883.75	46.82	-344.12	393,665.52	827,246.98	32.078904	-103.410236	
6,000.00	5.50	277.75	5,983.29	48.11	-353.61	393,666.81	827,237.49	32.078907	-103.410266	
6,100.00	5.50	277.75	6,082.83	49.40	-363.10	393,668.10	827,227.99	32.078911	-103.410297	
6,200.00	5.50	277.75	6,182.37	50.69	-372.60	393,669.39	827,218.50	32.078915	-103.410327	
6,300.00	5.50	277.75	6,281.91	51.98	-382.09	393,670.68	827,209.01	32.078919	-103.410358	
6,400.00	5.50	277.75	6,381.45	53.27	-391.58	393,671.97	827,199.52	32.078922	-103.410389	
6,500.00	5.50	277.75	6,480.99	54.56	-401.07	393,673.26	827,190.03	32.078926	-103.410419	
6,600.00	5.50	277.75	6,580.53	55.86	-410.56	393,674.55	827,180.53	32.078930	-103.410450	
6,700.00	5.50	277.75	6,680.07	57.15	-420.06	393,675.85	827,171.04	32.078934	-103.410480	
6,800.00	5.50	277.75	6,779.61	58.44	-429.55	393,677.14	827,161.55	32.078938	-103.410511	
6,900.00	5.50	277.75	6,879.15	59.73	-439.04	393,678.43	827,152.06	32.078941	-103.410542	
7,000.00	5.50	277.75	6,978.69	61.02	-448.53	393,679.72	827,142.57	32.078945	-103.410572	
7,100.00	5.50	277.75	7,078.23	62.31	-458.02	393,681.01	827,133.07	32.078949	-103.410603	
7,200.00	5.50	277.75	7,177.77	63.60	-467.52	393,682.30	827,123.58	32.078953	-103.410633	
7,300.00	5.50	277.75	7,277.31	64.90	-477.01	393,683.59	827,114.09	32.078956	-103.410664	
7,400.00	5.50	277.75	7,376.85	66.19	-486.50	393,684.89	827,104.60	32.078960	-103.410695	
7,500.00	5.50	277.75	7,476.39	67.48	-495.99	393,686.18	827,095.11	32.078964	-103.410725	
7,600.00	5.50	277.75	7,575.93	68.77	-505.48	393,687.47	827,085.61	32.078968	-103.410756	
7,700.00	5.50	277.75	7,675.47	70.06	-514.98	393,688.76	827,076.12	32.078971	-103.410787	
7,800.00	5.50	277.75	7,775.01	71.35	-524.47	393,690.05	827,066.63	32.078975	-103.410817	
7,900.00	5.50	277.75	7,874.55	72.64	-533.96	393,691.34	827,057.14	32.078979	-103.410848	
8,000.00	5.50	277.75	7,974.09	73.93	-543.45	393,692.63	827,047.65	32.078983	-103.410878	
8,100.00	5.50	277.75	8,073.63	75.23	-552.95	393,693.92	827,038.15	32.078987	-103.410909	
8,200.00	5.50	277.75	8,173.17	76.52	-562.44	393,695.22	827,028.66	32.078990	-103.410940	
8,300.00	5.50	277.75	8,272.71	77.81	-571.93	393,696.51	827,019.17	32.078994	-103.410970	
8,400.00	5.50	277.75	8,372.25	79.10	-581.42	393,697.80	827,009.68	32.078998	-103.411001	
8,500.00	5.50	277.75	8,471.79	80.39	-590.91	393,699.09	827,000.19	32.079002	-103.411031	
8,600.00	5.50	277.75	8,571.33	81.68	-600.41	393,700.38	826,990.69	32.079005	-103.411062	
8,700.00	5.50	277.75	8,670.87	82.97	-609.90	393,701.67	826,981.20	32.079009	-103.411093	
8,800.00	5.50	277.75	8,770.41	84.27	-619.39	393,702.96	826,971.71	32.079013	-103.411123	
8,900.00	5.50	277.75	8,869.95	85.56	-628.88	393,704.26	826,962.22	32.079017	-103.411154	
9,000.00	5.50	277.75	8,969.49	86.85	-638.37	393,705.55	826,952.73	32.079021	-103.411184	
9,100.00	5.50	277.75	9,069.03	88.14	-647.87	393,706.84	826,943.23	32.079024	-103.411215	
9,200.00	5.50	277.75	9,168.57	89.43	-657.36	393,708.13	826,933.74	32.079028	-103.411246	
9,300.00	5.50	277.75	9,268.11	90.72	-666.85	393,709.42	826,924.25	32.079032	-103.411276	
9,400.00	5.50	277.75	9,367.65	92.01	-676.34	393,710.71	826,914.76	32.079036	-103.411307	
9,500.00	5.50	277.75	9,467.19	93.31	-685.83	393,712.00	826,905.27	32.079039	-103.411337	
9,600.00	5.50	277.75	9,566.73	94.60	-695.33	393,713.30	826,895.77	32.079043	-103.411368	
9,700.00	5.50	277.75	9,666.27	95.89	-704.82	393,714.59	826,886.28	32.079047	-103.411399	
9,800.00	5.50	277.75	9,765.81	97.18	-714.31	393,715.88	826,876.79	32.079051	-103.411429	
9,900.00	5.50	277.75	9,865.35	98.47	-723.80	393,717.17	826,867.30	32.079054	-103.411460	
10,000.00	5.50	277.75	9,964.89	99.76	-733.29	393,718.46	826,857.81	32.079058	-103.411490	
10,100.00	5.50	277.75	10,064.43	101.05	-742.79	393,719.75	826,848.31	32.079062	-103.411521	
10,200.00	5.50	277.75	10,163.97	102.34	-752.28	393,721.04	826,838.82	32.079066	-103.411552	
10,300.00	5.50	277.75	10,263.51	103.64	-761.77	393,722.33	826,829.33	32.079070	-103.411582	
10,400.00	5.50	277.75	10,363.05	104.93	-771.26	393,723.63	826,819.84	32.079073	-103.411613	
10,500.00	5.50	277.75	10,462.59	106.22	-780.75	393,724.92	826,810.35	32.079077	-103.411644	
10,600.00	5.50	277.75	10,562.13	107.51	-790.25	393,726.21	826,800.85	32.079081	-103.411674	
10,700.00	5.50	277.75	10,661.67	108.80	-799.74	393,727.50	826,791.36	32.079085	-103.411705	
10,800.00	5.50	277.75	10,761.22	110.09	-809.23	393,728.79	826,781.87	32.079088	-103.411735	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,900.00	5.50	277.75	10,860.76	111.38	-818.72	393,730.08	826,772.38	32.079092	-103.411766	
11,000.00	5.50	277.75	10,960.30	112.68	-828.21	393,731.37	826,762.89	32.079096	-103.411797	
11,100.00	5.50	277.75	11,059.84	113.97	-837.71	393,732.67	826,753.39	32.079100	-103.411827	
11,151.49	5.50	277.75	11,111.09	114.63	-842.59	393,733.33	826,748.51	32.079102	-103.411843	
11,200.00	4.77	277.75	11,159.40	115.22	-846.89	393,733.92	826,744.21	32.079103	-103.411857	
11,300.00	3.27	277.75	11,259.15	116.16	-853.84	393,734.86	826,737.26	32.079106	-103.411879	
11,400.00	1.77	277.75	11,359.06	116.75	-858.20	393,735.45	826,732.90	32.079108	-103.411893	
11,500.00	0.27	277.75	11,459.04	116.99	-859.96	393,735.69	826,731.14	32.079109	-103.411899	
11,517.96	0.00	0.00	11,477.00	117.00	-860.00	393,735.70	826,731.10	32.079109	-103.411899	
11,600.00	0.00	0.00	11,559.04	117.00	-860.00	393,735.70	826,731.10	32.079109	-103.411899	
11,700.00	0.00	0.00	11,659.04	117.00	-860.00	393,735.70	826,731.10	32.079109	-103.411899	
11,800.00	0.00	0.00	11,759.04	117.00	-860.00	393,735.70	826,731.10	32.079109	-103.411899	
11,868.00	0.00	0.00	11,827.04	117.00	-860.00	393,735.70	826,731.10	32.079109	-103.411899	
KOP & FTP @ 11868' MD, 200' FNL, 1000' FWL										
11,900.00	3.20	179.50	11,859.02	116.11	-859.99	393,734.81	826,731.11	32.079106	-103.411899	
12,000.00	13.20	179.50	11,957.87	101.86	-859.87	393,720.56	826,731.23	32.079067	-103.411899	
12,100.00	23.20	179.50	12,052.75	70.67	-859.60	393,689.37	826,731.50	32.078981	-103.411899	
12,200.00	33.20	179.50	12,140.77	23.48	-859.19	393,642.18	826,731.91	32.078852	-103.411899	
12,300.00	43.20	179.50	12,219.25	-38.28	-858.65	393,580.42	826,732.45	32.078682	-103.411899	
12,400.00	53.20	179.50	12,285.82	-112.73	-858.01	393,505.97	826,733.09	32.078477	-103.411899	
12,500.00	63.20	179.50	12,338.45	-197.61	-857.27	393,421.09	826,733.83	32.078244	-103.411899	
12,600.00	73.20	179.50	12,375.54	-290.34	-856.47	393,328.36	826,734.63	32.077989	-103.411899	
12,700.00	83.20	179.50	12,395.97	-388.09	-855.62	393,230.61	826,735.48	32.077720	-103.411899	
12,768.01	90.00	179.50	12,400.00	-455.94	-855.04	393,162.76	826,736.06	32.077534	-103.411899	
12,800.00	90.00	179.50	12,400.00	-487.93	-854.76	393,130.77	826,736.34	32.077446	-103.411899	
12,900.00	90.00	179.50	12,400.00	-587.93	-853.89	393,030.77	826,737.21	32.077171	-103.411899	
13,000.00	90.00	179.50	12,400.00	-687.92	-853.03	392,930.78	826,738.07	32.076896	-103.411899	
13,100.00	90.00	179.50	12,400.00	-787.92	-852.16	392,830.78	826,738.94	32.076621	-103.411899	
13,200.00	90.00	179.50	12,400.00	-887.92	-851.29	392,730.78	826,739.81	32.076346	-103.411899	
13,300.00	90.00	179.50	12,400.00	-987.91	-850.43	392,630.79	826,740.67	32.076071	-103.411899	
13,400.00	90.00	179.50	12,400.00	-1,087.91	-849.56	392,530.79	826,741.54	32.075797	-103.411899	
13,500.00	90.00	179.50	12,400.00	-1,187.90	-848.69	392,430.80	826,742.41	32.075522	-103.411899	
13,600.00	90.00	179.50	12,400.00	-1,287.90	-847.83	392,330.80	826,743.27	32.075247	-103.411898	
13,700.00	90.00	179.50	12,400.00	-1,387.90	-846.96	392,230.80	826,744.14	32.074972	-103.411898	
13,800.00	90.00	179.50	12,400.00	-1,487.89	-846.09	392,130.81	826,745.01	32.074697	-103.411898	
13,900.00	90.00	179.50	12,400.00	-1,587.89	-845.23	392,030.81	826,745.87	32.074422	-103.411898	
14,000.00	90.00	179.50	12,400.00	-1,687.89	-844.36	391,930.82	826,746.74	32.074147	-103.411898	
14,100.00	90.00	179.50	12,400.00	-1,787.88	-843.49	391,830.82	826,747.61	32.073872	-103.411898	
14,200.00	90.00	179.50	12,400.00	-1,887.88	-842.63	391,730.82	826,748.47	32.073598	-103.411898	
14,300.00	90.00	179.50	12,400.00	-1,987.87	-841.76	391,630.83	826,749.34	32.073323	-103.411898	
14,400.00	90.00	179.50	12,400.00	-2,087.87	-840.90	391,530.83	826,750.21	32.073048	-103.411898	
14,500.00	90.00	179.50	12,400.00	-2,187.87	-840.03	391,430.84	826,751.07	32.072773	-103.411898	
14,600.00	90.00	179.50	12,400.00	-2,287.86	-839.16	391,330.84	826,751.94	32.072498	-103.411898	
14,700.00	90.00	179.50	12,400.00	-2,387.86	-838.30	391,230.84	826,752.80	32.072223	-103.411898	
14,800.00	90.00	179.50	12,400.00	-2,487.86	-837.43	391,130.85	826,753.67	32.071948	-103.411898	
14,900.00	90.00	179.50	12,400.00	-2,587.85	-836.56	391,030.85	826,754.54	32.071673	-103.411898	
15,000.00	90.00	179.50	12,400.00	-2,687.85	-835.70	390,930.86	826,755.40	32.071399	-103.411898	
15,100.00	90.00	179.50	12,400.00	-2,787.84	-834.83	390,830.86	826,756.27	32.071124	-103.411898	
15,200.00	90.00	179.50	12,400.00	-2,887.84	-833.96	390,730.86	826,757.14	32.070849	-103.411898	
15,300.00	90.00	179.50	12,400.00	-2,987.84	-833.10	390,630.87	826,758.00	32.070574	-103.411898	
15,400.00	90.00	179.50	12,400.00	-3,087.83	-832.23	390,530.87	826,758.87	32.070299	-103.411898	
15,500.00	90.00	179.50	12,400.00	-3,187.83	-831.36	390,430.88	826,759.74	32.070024	-103.411898	
15,600.00	90.00	179.50	12,400.00	-3,287.83	-830.50	390,330.88	826,760.60	32.069749	-103.411898	
15,700.00	90.00	179.50	12,400.00	-3,387.82	-829.63	390,230.88	826,761.47	32.069474	-103.411898	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
15,800.00	90.00	179.50	12,400.00	-3,487.82	-828.76	390,130.89	826,762.34	32.069200	-103.411898	
15,900.00	90.00	179.50	12,400.00	-3,587.81	-827.90	390,030.89	826,763.20	32.068925	-103.411898	
16,000.00	90.00	179.50	12,400.00	-3,687.81	-827.03	389,930.90	826,764.07	32.068650	-103.411898	
16,100.00	90.00	179.50	12,400.00	-3,787.81	-826.17	389,830.90	826,764.93	32.068375	-103.411897	
16,200.00	90.00	179.50	12,400.00	-3,887.80	-825.30	389,730.90	826,765.80	32.068100	-103.411897	
16,300.00	90.00	179.50	12,400.00	-3,987.80	-824.43	389,630.91	826,766.67	32.067825	-103.411897	
16,400.00	90.00	179.50	12,400.00	-4,087.80	-823.57	389,530.91	826,767.53	32.067550	-103.411897	
16,500.00	90.00	179.50	12,400.00	-4,187.79	-822.70	389,430.92	826,768.40	32.067276	-103.411897	
16,600.00	90.00	179.50	12,400.00	-4,287.79	-821.83	389,330.92	826,769.27	32.067001	-103.411897	
16,700.00	90.00	179.50	12,400.00	-4,387.78	-820.97	389,230.92	826,770.13	32.066726	-103.411897	
16,800.00	90.00	179.50	12,400.00	-4,487.78	-820.10	389,130.93	826,771.00	32.066451	-103.411897	
16,900.00	90.00	179.50	12,400.00	-4,587.78	-819.23	389,030.93	826,771.87	32.066176	-103.411897	
17,000.00	90.00	179.50	12,400.00	-4,687.77	-818.37	388,930.93	826,772.73	32.065901	-103.411897	
17,100.00	90.00	179.50	12,400.00	-4,787.77	-817.50	388,830.94	826,773.60	32.065626	-103.411897	
17,200.00	90.00	179.50	12,400.00	-4,887.77	-816.63	388,730.94	826,774.47	32.065351	-103.411897	
17,276.00	90.00	179.50	12,400.00	-4,963.76	-815.98	388,654.95	826,775.12	32.065143	-103.411897	
Cross section @ 17276' MD, 0' FNL, 1000' FWL										
17,300.00	90.00	179.50	12,400.00	-4,987.76	-815.77	388,630.95	826,775.33	32.065077	-103.411897	
17,400.00	90.00	179.50	12,400.00	-5,087.76	-814.90	388,530.95	826,776.20	32.064802	-103.411897	
17,500.00	90.00	179.50	12,400.00	-5,187.75	-814.03	388,430.95	826,777.07	32.064527	-103.411897	
17,600.00	90.00	179.50	12,400.00	-5,287.75	-813.17	388,330.96	826,777.93	32.064252	-103.411897	
17,700.00	90.00	179.50	12,400.00	-5,387.75	-812.30	388,230.96	826,778.80	32.063977	-103.411897	
17,800.00	90.00	179.50	12,400.00	-5,487.74	-811.44	388,130.97	826,779.66	32.063702	-103.411897	
17,900.00	90.00	179.50	12,400.00	-5,587.74	-810.57	388,030.97	826,780.53	32.063427	-103.411897	
18,000.00	90.00	179.50	12,400.00	-5,687.74	-809.70	387,930.97	826,781.40	32.063152	-103.411897	
18,100.00	90.00	179.50	12,400.00	-5,787.73	-808.84	387,830.98	826,782.26	32.062878	-103.411897	
18,200.00	90.00	179.50	12,400.00	-5,887.73	-807.97	387,730.98	826,783.13	32.062603	-103.411897	
18,300.00	90.00	179.50	12,400.00	-5,987.72	-807.10	387,630.99	826,784.00	32.062328	-103.411897	
18,400.00	90.00	179.50	12,400.00	-6,087.72	-806.24	387,530.99	826,784.86	32.062053	-103.411897	
18,500.00	90.00	179.50	12,400.00	-6,187.72	-805.37	387,430.99	826,785.73	32.061778	-103.411896	
18,600.00	90.00	179.50	12,400.00	-6,287.71	-804.50	387,331.00	826,786.60	32.061503	-103.411896	
18,700.00	90.00	179.50	12,400.00	-6,387.71	-803.64	387,231.00	826,787.46	32.061228	-103.411896	
18,800.00	90.00	179.50	12,400.00	-6,487.71	-802.77	387,131.01	826,788.33	32.060953	-103.411896	
18,900.00	90.00	179.50	12,400.00	-6,587.70	-801.90	387,031.01	826,789.20	32.060679	-103.411896	
19,000.00	90.00	179.50	12,400.00	-6,687.70	-801.04	386,931.01	826,790.06	32.060404	-103.411896	
19,100.00	90.00	179.50	12,400.00	-6,787.69	-800.17	386,831.02	826,790.93	32.060129	-103.411896	
19,200.00	90.00	179.50	12,400.00	-6,887.69	-799.31	386,731.02	826,791.79	32.059854	-103.411896	
19,300.00	90.00	179.50	12,400.00	-6,987.69	-798.44	386,631.03	826,792.66	32.059579	-103.411896	
19,400.00	90.00	179.50	12,400.00	-7,087.68	-797.57	386,531.03	826,793.53	32.059304	-103.411896	
19,500.00	90.00	179.50	12,400.00	-7,187.68	-796.71	386,431.03	826,794.39	32.059029	-103.411896	
19,600.00	90.00	179.50	12,400.00	-7,287.68	-795.84	386,331.04	826,795.26	32.058754	-103.411896	
19,700.00	90.00	179.50	12,400.00	-7,387.67	-794.97	386,231.04	826,796.13	32.058480	-103.411896	
19,800.00	90.00	179.50	12,400.00	-7,487.67	-794.11	386,131.05	826,796.99	32.058205	-103.411896	
19,900.00	90.00	179.50	12,400.00	-7,587.66	-793.24	386,031.05	826,797.86	32.057930	-103.411896	
19,916.00	90.00	179.50	12,400.00	-7,603.66	-793.10	386,015.05	826,798.00	32.057886	-103.411896	
Cross NM115000 @ 19916' MD, 2640' FSL, 1000' FWL										
20,000.00	90.00	179.50	12,400.00	-7,687.66	-792.37	385,931.05	826,798.73	32.057655	-103.411896	
20,100.00	90.00	179.50	12,400.00	-7,787.66	-791.51	385,831.06	826,799.59	32.057380	-103.411896	
20,200.00	90.00	179.50	12,400.00	-7,887.65	-790.64	385,731.06	826,800.46	32.057105	-103.411896	
20,300.00	90.00	179.50	12,400.00	-7,987.65	-789.77	385,631.07	826,801.33	32.056830	-103.411896	
20,400.00	90.00	179.50	12,400.00	-8,087.65	-788.91	385,531.07	826,802.19	32.056556	-103.411896	
20,500.00	90.00	179.50	12,400.00	-8,187.64	-788.04	385,431.07	826,803.06	32.056281	-103.411896	
20,600.00	90.00	179.50	12,400.00	-8,287.64	-787.17	385,331.08	826,803.93	32.056006	-103.411896	
20,700.00	90.00	179.50	12,400.00	-8,387.63	-786.31	385,231.08	826,804.79	32.055731	-103.411896	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
20,800.00	90.00	179.50	12,400.00	-8,487.63	-785.44	385,131.09	826,805.66	32.055456	-103.411896	
20,900.00	90.00	179.50	12,400.00	-8,587.63	-784.58	385,031.09	826,806.52	32.055181	-103.411896	
21,000.00	90.00	179.50	12,400.00	-8,687.62	-783.71	384,931.09	826,807.39	32.054906	-103.411895	
21,100.00	90.00	179.50	12,400.00	-8,787.62	-782.84	384,831.10	826,808.26	32.054631	-103.411895	
21,200.00	90.00	179.50	12,400.00	-8,887.62	-781.98	384,731.10	826,809.12	32.054357	-103.411895	
21,300.00	90.00	179.50	12,400.00	-8,987.61	-781.11	384,631.10	826,809.99	32.054082	-103.411895	
21,400.00	90.00	179.50	12,400.00	-9,087.61	-780.24	384,531.11	826,810.86	32.053807	-103.411895	
21,500.00	90.00	179.50	12,400.00	-9,187.60	-779.38	384,431.11	826,811.72	32.053532	-103.411895	
21,600.00	90.00	179.50	12,400.00	-9,287.60	-778.51	384,331.12	826,812.59	32.053257	-103.411895	
21,700.00	90.00	179.50	12,400.00	-9,387.60	-777.64	384,231.12	826,813.46	32.052982	-103.411895	
21,800.00	90.00	179.50	12,400.00	-9,487.59	-776.78	384,131.12	826,814.32	32.052707	-103.411895	
21,900.00	90.00	179.50	12,400.00	-9,587.59	-775.91	384,031.13	826,815.19	32.052432	-103.411895	
22,000.00	90.00	179.50	12,400.00	-9,687.59	-775.04	383,931.13	826,816.06	32.052158	-103.411895	
22,100.00	90.00	179.50	12,400.00	-9,787.58	-774.18	383,831.14	826,816.92	32.051883	-103.411895	
22,200.00	90.00	179.50	12,400.00	-9,887.58	-773.31	383,731.14	826,817.79	32.051608	-103.411895	
22,300.00	90.00	179.50	12,400.00	-9,987.57	-772.44	383,631.14	826,818.66	32.051333	-103.411895	
22,400.00	90.00	179.50	12,400.00	-10,087.57	-771.58	383,531.15	826,819.52	32.051058	-103.411895	
22,500.00	90.00	179.50	12,400.00	-10,187.57	-770.71	383,431.15	826,820.39	32.050783	-103.411895	
22,557.00	90.00	179.50	12,400.00	-10,244.56	-770.22	383,374.15	826,820.88	32.050627	-103.411895	
Cross section @ 22557' MD, 0' FNL, 1000' FWL										
22,600.00	90.00	179.50	12,400.00	-10,287.56	-769.85	383,331.16	826,821.25	32.050508	-103.411895	
22,700.00	90.00	179.50	12,400.00	-10,387.56	-768.98	383,231.16	826,822.12	32.050233	-103.411895	
22,800.00	90.00	179.50	12,400.00	-10,487.56	-768.11	383,131.16	826,822.99	32.049959	-103.411895	
22,900.00	90.00	179.50	12,400.00	-10,587.55	-767.25	383,031.17	826,823.85	32.049684	-103.411895	
23,000.00	90.00	179.50	12,400.00	-10,687.55	-766.38	382,931.17	826,824.72	32.049409	-103.411895	
23,100.00	90.00	179.50	12,400.00	-10,787.54	-765.51	382,831.18	826,825.59	32.049134	-103.411895	
23,200.00	90.00	179.50	12,400.00	-10,887.54	-764.65	382,731.18	826,826.45	32.048859	-103.411895	
23,300.00	90.00	179.50	12,400.00	-10,987.54	-763.78	382,631.18	826,827.32	32.048584	-103.411895	
23,400.00	90.00	179.50	12,400.00	-11,087.53	-762.91	382,531.19	826,828.19	32.048309	-103.411894	
23,500.00	90.00	179.50	12,400.00	-11,187.53	-762.05	382,431.19	826,829.05	32.048034	-103.411894	
23,600.00	90.00	179.50	12,400.00	-11,287.53	-761.18	382,331.20	826,829.92	32.047760	-103.411894	
23,700.00	90.00	179.50	12,400.00	-11,387.52	-760.31	382,231.20	826,830.79	32.047485	-103.411894	
23,800.00	90.00	179.50	12,400.00	-11,487.52	-759.45	382,131.20	826,831.65	32.047210	-103.411894	
23,900.00	90.00	179.50	12,400.00	-11,587.51	-758.58	382,031.21	826,832.52	32.046935	-103.411894	
24,000.00	90.00	179.50	12,400.00	-11,687.51	-757.72	381,931.21	826,833.38	32.046660	-103.411894	
24,100.00	90.00	179.50	12,400.00	-11,787.51	-756.85	381,831.22	826,834.25	32.046385	-103.411894	
24,200.00	90.00	179.50	12,400.00	-11,887.50	-755.98	381,731.22	826,835.12	32.046110	-103.411894	
24,300.00	90.00	179.50	12,400.00	-11,987.50	-755.12	381,631.22	826,835.98	32.045836	-103.411894	
24,400.00	90.00	179.50	12,400.00	-12,087.50	-754.25	381,531.23	826,836.85	32.045561	-103.411894	
24,500.00	90.00	179.50	12,400.00	-12,187.49	-753.38	381,431.23	826,837.72	32.045286	-103.411894	
24,600.00	90.00	179.50	12,400.00	-12,287.49	-752.52	381,331.24	826,838.58	32.045011	-103.411894	
24,700.00	90.00	179.50	12,400.00	-12,387.48	-751.65	381,231.24	826,839.45	32.044736	-103.411894	
24,800.00	90.00	179.50	12,400.00	-12,487.48	-750.78	381,131.24	826,840.32	32.044461	-103.411894	
24,900.00	90.00	179.50	12,400.00	-12,587.48	-749.92	381,031.25	826,841.18	32.044186	-103.411894	
25,000.00	90.00	179.50	12,400.00	-12,687.47	-749.05	380,931.25	826,842.05	32.043911	-103.411894	
25,100.00	90.00	179.50	12,400.00	-12,787.47	-748.18	380,831.25	826,842.92	32.043637	-103.411894	
25,103.00	90.00	179.50	12,400.00	-12,790.47	-748.16	380,828.26	826,842.94	32.043628	-103.411894	
LTP @ 25103' MD, 2540' FNL, 1000' FWL										
25,183.39	90.00	179.50	12,400.00	-12,870.86	-747.46	380,747.87	826,843.64	32.043407	-103.411894	
PBHL; 2620' FNL, 1000' FWL										
25,183.40	90.00	179.50	12,400.00	-12,870.87	-747.46	380,747.86	826,843.64	32.043407	-103.411894	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Billiken 6-18 Fed Com 9H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3304.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3304.60ft
Site:	Sec 06-T26S-R35E	North Reference:	Grid
Well:	Billiken 6-18 Fed Com 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
PBHL - Billiken 6-18 Fed	0.00	0.00	0.00	-12,870.87	-747.46	380,747.86	826,843.64	32.043407	-103.411894
- plan misses target center by 12400.00ft at 25183.40ft MD (12400.00 TVD, -12870.87 N, -747.46 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
11,868.00	11,827.04	117.00	-860.00	KOP & FTP @ 11868' MD, 200' FNL, 1000' FWL
17,276.00	12,400.00	-4,963.76	-815.98	Cross section @ 17276' MD, 0' FNL, 1000' FWL
19,916.00	12,400.00	-7,603.66	-793.10	Cross NM115000 @ 19916' MD, 2640' FSL, 1000' FWL
22,557.00	12,400.00	-10,244.56	-770.22	Cross section @ 22557' MD, 0' FNL, 1000' FWL
25,103.00	12,400.00	-12,790.47	-748.16	LTP @ 25103' MD, 2540' FNL, 1000' FWL
25,183.39	12,400.00	-12,870.86	-747.46	PBHL; 2620' FNL, 1000' FWL

Devon Energy



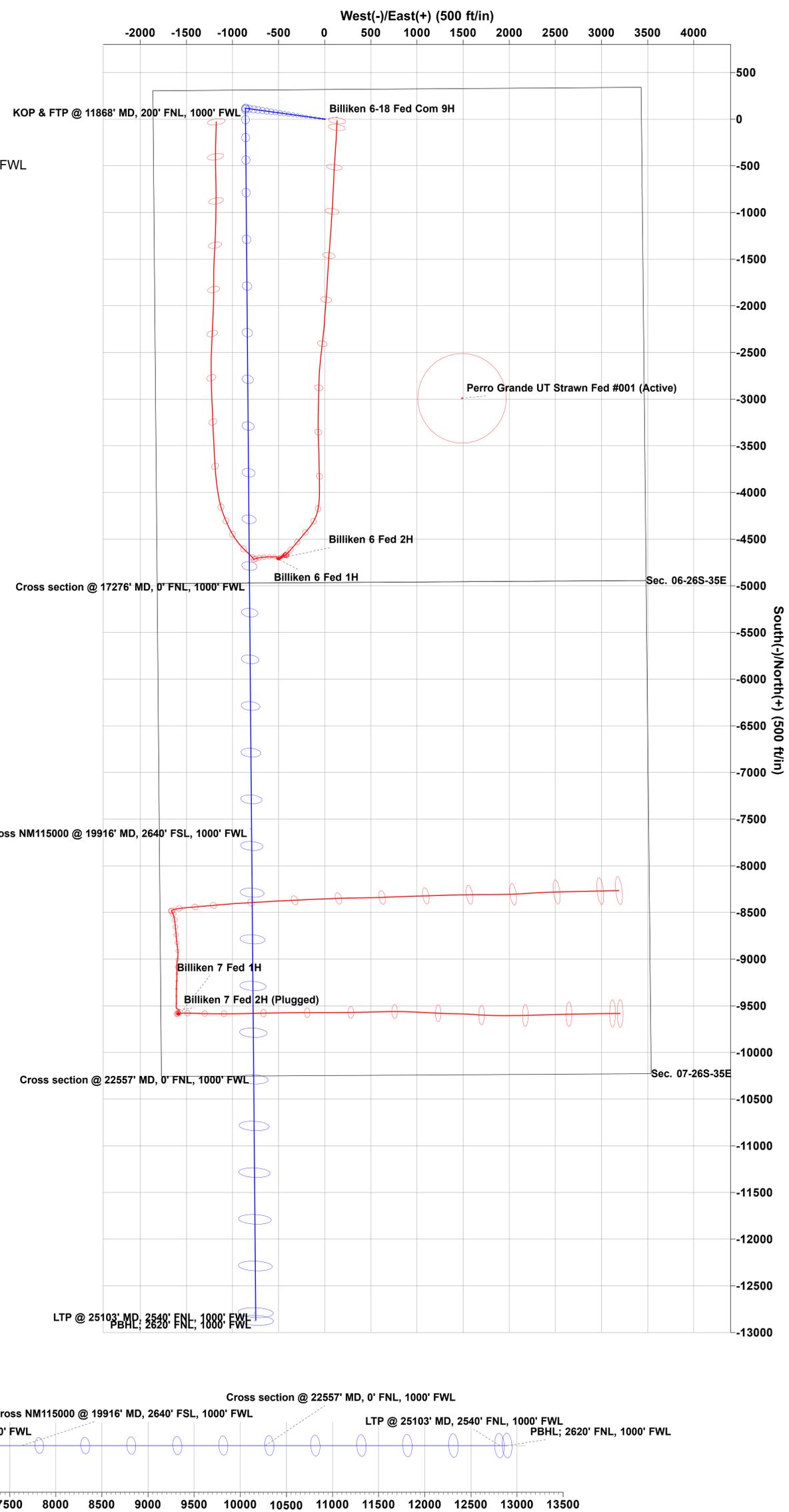
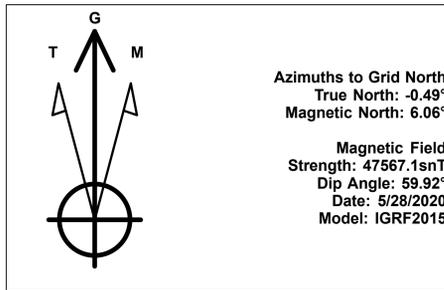
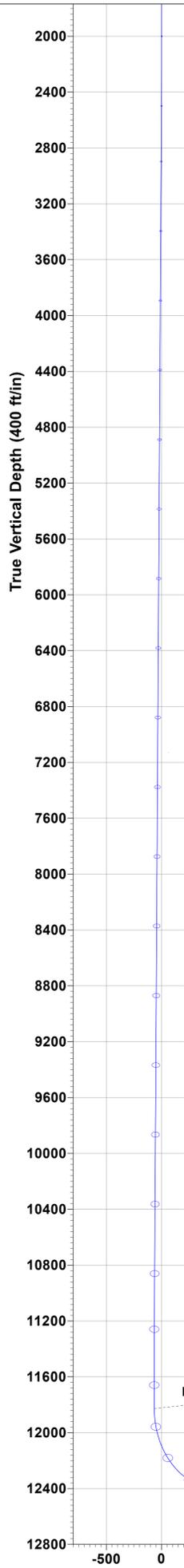
WELL DETAILS: Billiken 6-18 Fed Com 9H

RKB @ 3304.60ft
3279.60

Northing 393618.70 Easting 827591.10 Latitude 32.078767 Longitude -103.409126

SECTION DETAILS Permit Plan 1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	
2549.71	5.50	277.75	2548.86	3.55	-26.11	1.00	-2.03	
11151.49	5.50	277.75	11111.09	114.63	-842.59	0.00	-65.59	
5 11517.96	0.00	0.00	11477.00	117.00	-860.00	1.50	-66.94	
6 11868.00	0.00	0.00	11827.04	117.00	-860.00	0.00	-66.94	KOP & FTP @ 11868' MD, 200' FNL, 1000' FWL
7 12768.01	90.00	179.50	12400.00	-455.94	-855.04	10.00	504.74	
8 25183.40	90.00	179.50	12400.00	-12870.87	-747.46	0.00	12892.55	PBHL; 2620' FNL, 1000' FWL



PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

Billiken 6	FED	5H	Well Pad 1					
Surface	Section 6	T26S,	R35E	311	FNL,	578	FWL,	Lea County
Bottom Hole	Section 18	T26S,	R35E	2620	FNL,	360	FWL,	Lea County
Billiken 6	FED	6H	Well Pad 1					
Surface	Section 6	T26S,	R35E	311	FNL,	608	FWL,	Lea County
Bottom Hole	Section 18	T26S,	R35E	2620	FNL,	1000	FWL,	Lea County
Billiken 6	FED	10H	Well Pad 1					
Surface	Section 6	T26S,	R35E	311	FNL,	638	FWL,	Lea County
Bottom Hole	Section 18	T26S,	R35E	2620	FNL,	1980	FWL,	Lea County
Billiken 6	FED	7H	Well Pad 2					
Surface	Section 6	T26S,	R35E	317	FNL,	1890	FWL,	Lea County
Bottom Hole	Section 18	T26S,	R35E	2620	FNL,	1640	FWL,	Lea County
Billiken 6	FED	8H	Well Pad 2					
Surface	Section 6	T26S,	R35E	317	FNL,	1920	FWL,	Lea County
Bottom Hole	Section 18	T26S,	R35E	2620	FNL,	2280	FWL,	Lea County
Billiken 6	FED	9H	Well Pad 2					
Surface	Section 6	T26S,	R35E	317	FNL,	1860	FWL,	Lea County
Bottom Hole	Section 18	T26S,	R35E	2620	FNL,	1000	FWL,	Lea County

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions**
- Permit Expiration**
- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
- Special Requirements**
 - Build sub pad only no grading full pad!!!!**
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
 - Range
- Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads

- Roads
- Road Section Diagram**
- Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Build sub pad only no grading full pad!!!!

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

The operator must contact the allotment holder prior to construction to identify the location of the pipeline. The operator must take measures to protect the pipeline from compression or other damages. If the pipeline is damaged or compromised in any way near the proposed project as a result of oil and gas activity, the operator is responsible for repairing the pipeline immediately.

The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

During construction, the proponent shall minimize disturbance to existing fences, water lines, troughs, windmills, and other improvements on public lands. The proponent is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the grazing permittee/allottee prior to disturbing any range improvement projects. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

Tank Battery COAs Only:

- Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

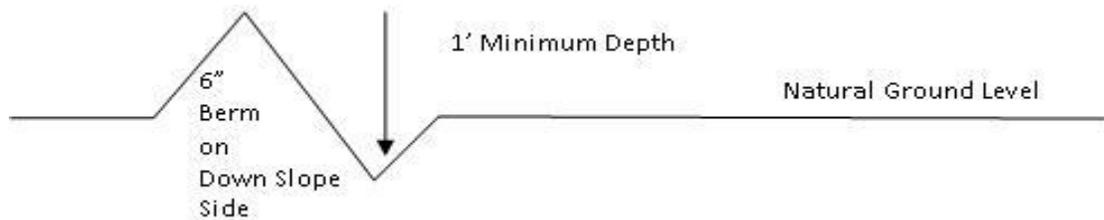
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

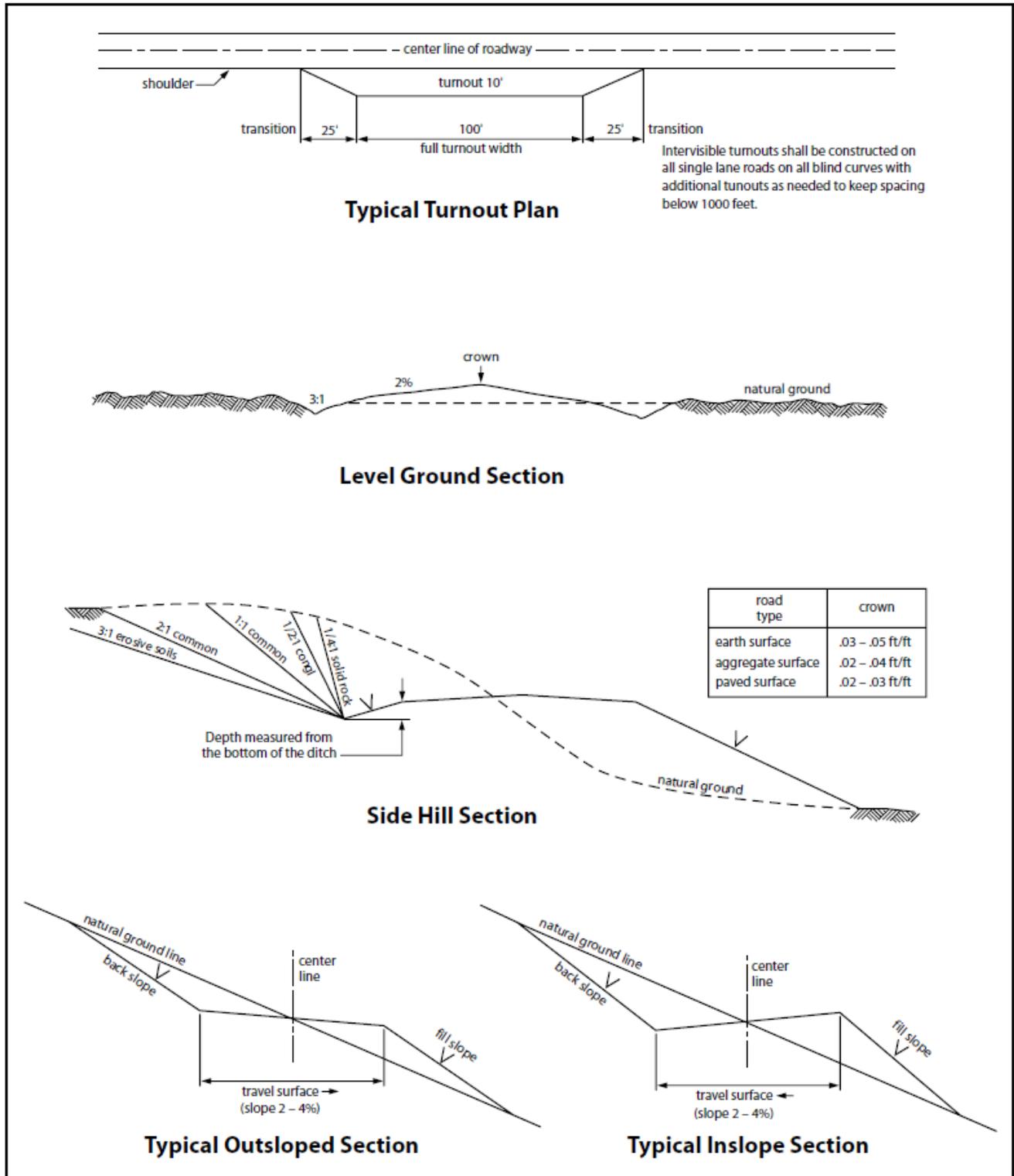


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates “Standard Environmental Colors” – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder’s name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the

Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle

use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM125401
LOCATION:	Section 6, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Billiken 6-18 Fed Com 5H
SURFACE HOLE FOOTAGE:	311'/N & 578'/W
BOTTOM HOLE FOOTAGE:	2620'/N & 360'/W

WELL NAME & NO.:	Billiken 6-18 Fed Com 6H
SURFACE HOLE FOOTAGE:	311'/N & 608'/W
BOTTOM HOLE FOOTAGE:	2620'/N & 1000'/W

WELL NAME & NO.:	Billiken 6-18 Fed Com 7H
SURFACE HOLE FOOTAGE:	317'/N & 1890'/W
BOTTOM HOLE FOOTAGE:	2620'/N & 1640'/W

WELL NAME & NO.:	Billiken 6-18 Fed Com 8H
SURFACE HOLE FOOTAGE:	317'/N & 1920'/W
BOTTOM HOLE FOOTAGE:	2620'/N & 2280'/W

WELL NAME & NO.:	Billiken 6-18 Fed Com 9H
SURFACE HOLE FOOTAGE:	317'/N & 1860'/W
BOTTOM HOLE FOOTAGE:	2620'/N & 1000'/W

WELL NAME & NO.:	Billiken 6-18 Fed Com 10H
SURFACE HOLE FOOTAGE:	311'/N & 638'/W
BOTTOM HOLE FOOTAGE:	2620'/N & 1980'/W

COA

H2S	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Potash	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Secretary	<input type="checkbox"/> R-111-P
Cave/Karst Potential	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Medium	<input type="checkbox"/> High
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Other
Wellhead	<input type="checkbox"/> Conventional	<input type="checkbox"/> Multibowl	<input checked="" type="checkbox"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Wildcat** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1225 feet** (a minimum of **25 feet (Lea County)**) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

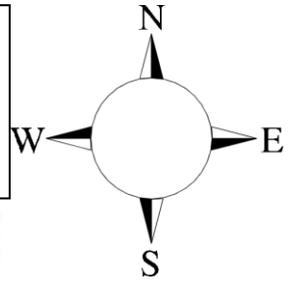
Billiken 6-18 Fed Com 9H

**Sec-6 T-26S R-35E
317 FNL & 1860' FWL
LAT. = 32.078767' N (NAD83)
LONG = 103.409126' W**

Lea County NM

Billiken 6-18 Fed Com 9H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm **ROE = 3000'** (Radius of Exposure)
100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico’s ‘Hazardous Materials Emergency Response Plan’ (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Rig floor
- Cellar
- Possum Belly/Shale shaker
- Choke manifold

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

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 RD., 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, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

OCD - HOBBS
08/17/2020
RECEIVED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47567	Pool Code 96672	Pool Name WC-025 G-08 S263412K;BONE SPRING
Property Code	Property Name BILLIKEN 6-18 FED COM	Well Number 9H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3279.6'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	6	26-S	35-E		317	NORTH	1860	WEST	LEA

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
LOT 2	18	26-S	35-E		2620	NORTH	1000	WEST	LEA

Dedicated Acres 81.60	Joint or Infill	Consolidation Code	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

BILLIKEN 6-18 FED COM 9H
EL: 3279.6'
LAT:32.078767
LON:103.409126
N:393618.70
E:827591.10

FIRST TAKE POINT
100' FNL 1000' FWL SEC. 6
LAT:32.079367
LON:103.411902
N:393829.74
E:826729.23

LAST TAKE POINT
2540' FNL 1000' FWL SEC. 18
LAT:32.043627
LON:103.411894
N:380827.86
E:826842.94

BOTTOM OF HOLE
LAT:32.043407
LON:103.411893
N:380747.86
E:826843.64

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

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.

Rebecca Deal 5/28/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

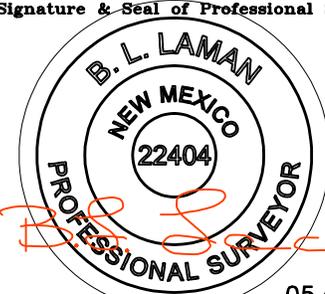
rebecca.deal@dvn.com
E-mail Address

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.

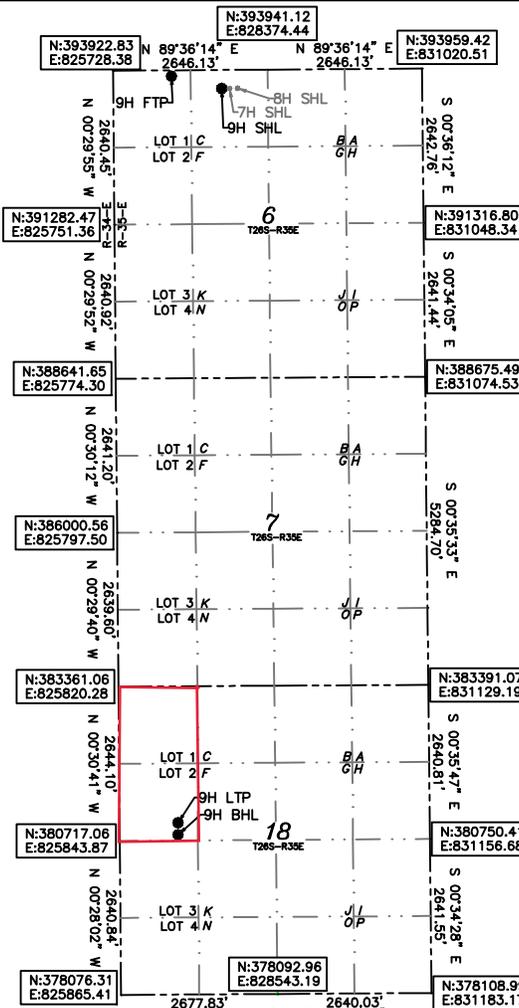
05/19/2020
Date of Survey

Signature & Seal of Professional Surveyor



05/21/20

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM



Intent As Drilled

API # **30-025-47567**

Operator Name:	Property Name:	Well Number
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Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

**OCD – HOBBS
08/17/2020
RECEIVED**

GAS CAPTURE PLAN

Original Operator & OGRID No.: Devon Production Co., L.P. (6137)
 Amended Date: 6/2/2020
Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Well(s)/Production Facility – Billiken CTB 1

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (STR)	Footages	Expected MCF/D	Flared or Vented	Comments
Billiken 6-18 Fed Com 9H		Sec 6-26S-35E 30-025-47567	317' FNL & 1860' FWL			Will connect to Billiken CTB 1
Billiken 6-18 Fed Com 7H		Sec 6-26S-35E	317' FNL & 1890' FWL			Will connect to Billiken CTB 1
Billiken 6-18 Fed Com 8H		Sec 6-26S-35E	317' FNL & 1920' FWL			Will connect to Billiken CTB 1

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Energy Transfer and will be connected to Energy Transfer low/high pressure gathering system located in Reeves Co. TX. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. Devon provides (periodically) to Energy Transfer a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Devon and Energy Transfer have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the Red Bluff Processing Plant located in section 35 of Blk 57, T2, T&P RR Co. Reeves Co. TX. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Energy Transfer's system at that time. Based on current information, it is Devon's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines