OPERATOR'S COPY

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 1 Type of work DRILL REENTER 5 Lease Serial No NMNM-89057 6 If Indian, Allotee	
APPLICATION FOR PERMIT TO DRILL OR REENTER 6 If Indian, Allotee	
la Type of work DRILL REENTER 7 If Unit or CA Agra	cement, Name and No
1b Type of Well	1274
2 Name of Operator Devon Energy Production Company, LP (6/37) 9 API Well No 30 -	015-38193
20 North Diodachay	D15-38193 Exploratory W14D CAT, thease; Bone Springs
4 Location of Well (Report location clearly and in accordance with any State requirements*) At surface SE/4 SW/4 430 FSL & 1650 FWL	
At proposed prod zone 330 FNL & 1650 FWL PP: 430 FSL & 1650 FWL SEC 11 T268	S R31E
14 Distance in miles and direction from nearest town or post office* Approximately 25 miles southeast of Loving, NM. 12 County or Parish Eddy County	13 State NM
15 Distance from proposed* location to nearest property or lease line, ft 16 No of acres in lease 17 Spacing Unit dedicated to this 19 property or lease 19 property 1	well
(Also to nearest drig unit line, if any) 430' 2160 Acres 100 Acres 18 Distance from proposed location' 19 Proposed Depth 20 BLM/BIA Bond No on file	
to nearest well, drilling, completed, applied for, on this lease, ft See attached Map. See attached Map. See attached Map.	
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23 Estimated duration 45 days	n
24 Attachments	
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form	
1 Well plat certified by a registered surveyor 2 A Drilling Plan 3 A Surface Use Plan (if the location is on National Forest System Lands, the 5 Operator certification	existing bond on file (see
SUPO shall be filed with the appropriate Forest Service Office) 6 Such other site specific information and/or plans as authorized officer	s may be required by the
25. Signature Name (Printed Typed) Judy A. Barnett	Date 04/14/2010
Regulatory Analyst	,
Approved by (Signature) Name (Printed/Typed)	Date 6 2(10
Title Office CARLSBAD FIELD OF	FICE
Application approval does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject lease which would conduct operations thereon	entitle the applicant to
Conditions of approval, if any, are attached APPROVA	L FOR TWO YEARS
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 of States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction	or agency of the United
*(Instructions on page 2)	
d Contractor Versian is an Appropriate object of the Appropriate object object of the Appropriate object of the Appropriat	et to Caneral Regainement Stipulations Attached

Approval Inflinet to Coneral Regulrements
& S., Liet Stipulations Attached

SEE ATTACHER FOR CONDITIONS OF APPROVAL DISTRICT I 1625 N French Dr., Hobbs, NM 86240 DISTRICT II 1301 W Grand Avenue, Artessa, NM 86210

1000 Rio Brazos Rd , Aztec, NM 87410

1220 S St Francis Dr. Santa Fe. NM 87505

DISTRICT III

DISTRICT IV

Dedicated Acres

160

Joint or Infill

Consolidation Code

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 15, 2009

Submit one copy to appropriate

District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

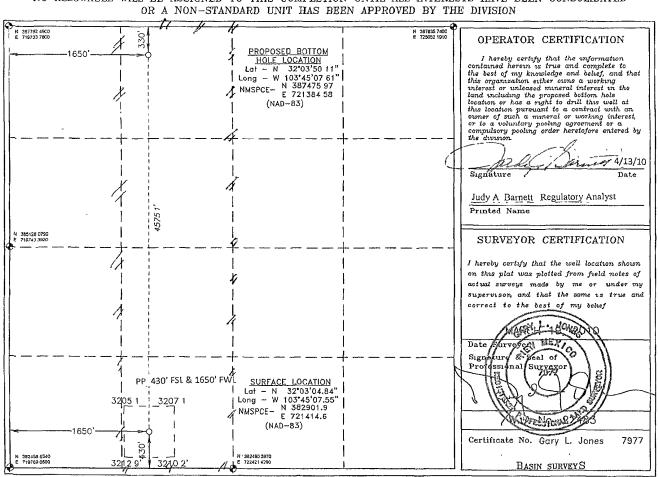
30-015-38	193 96403	WICD CAT Pool Name BIG SINKS SOUTHEAST, BONE SPRINGS				
Property Code	y Name 1" FEDERAL	Well Number				
OGRID No 6137	r Name ICTION COMPANY, L.P	Elevation 3212'				

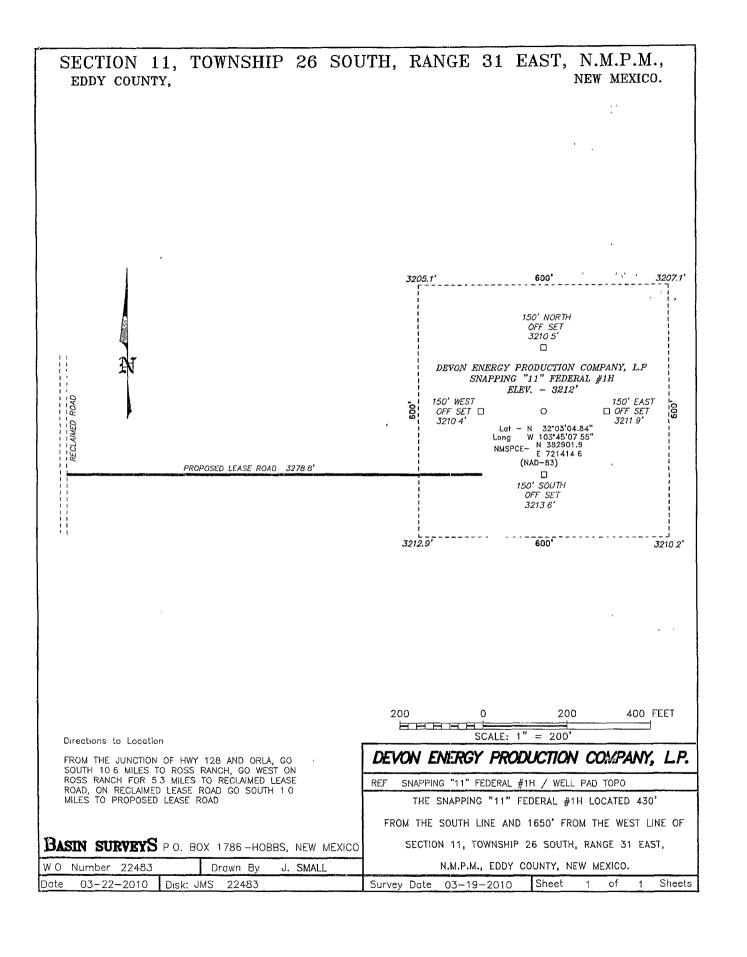
Surface Location

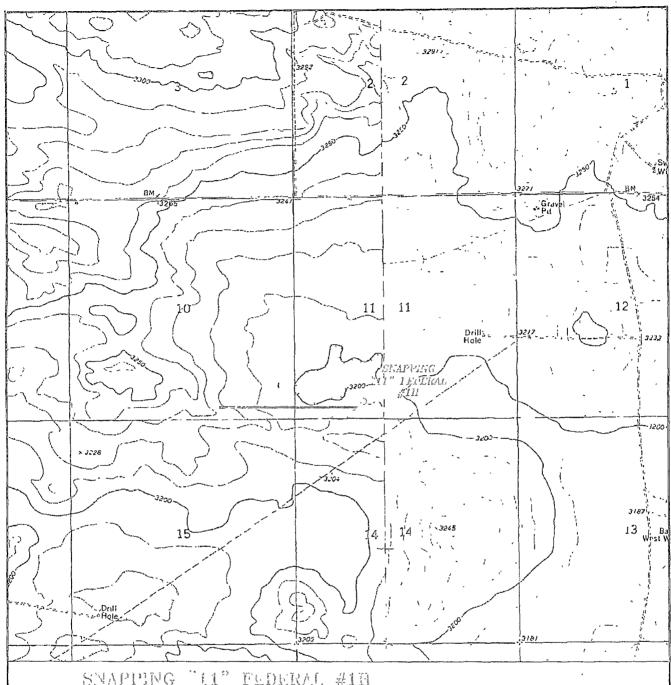
	UL or lot No	Section	Township	Range	Lot Idn Feet from the		North/South line	Feet from the	East/West line	County		
	N	11	26 S	31 E		430	SOUTH	1650	WEST	EDDY		
	Bottom Hole Location If Different From Surface											
-	UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
	C	11	26 S	31 F		330	NORTH	1650	WEST	EDDY		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

Order No







SNAPPING "11" FEDERAL #1B Located 430' FSL and 1650' FWL Section 11, Township 26 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.

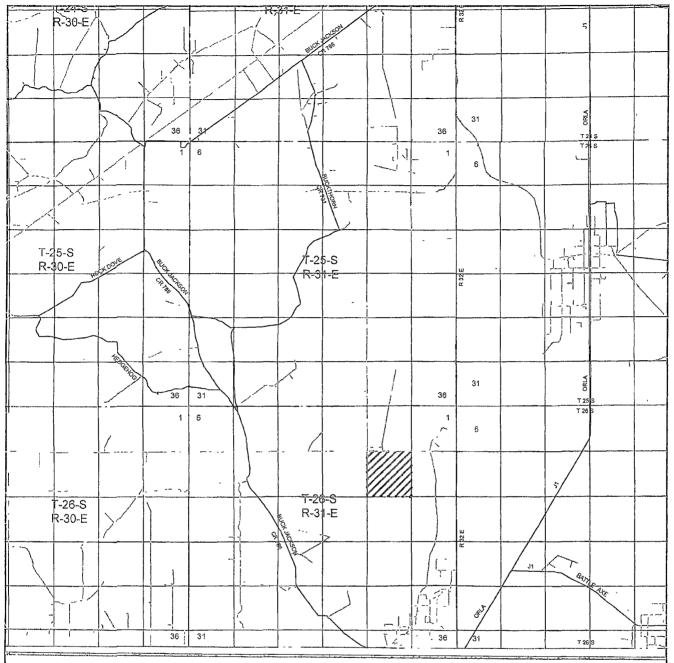


1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax focused on excellence basinsurvoys.com

P.O. Box 1786

W.O. Number: JMS 22483 Survey Dale 03-19-2010 Scale: 1" = 2000'03-22-2010

DEVON ENERGY PRODUCTION COMPANY, L.P.



SNAPPING "(I" FINDERAL #1B Located 430' FSL and 1650' FWL Section 11, Township 26 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.

focused on excellence

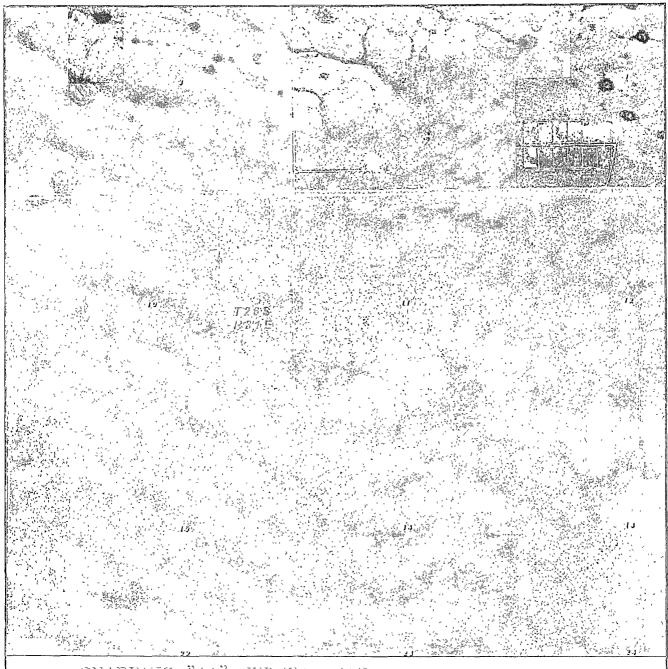
focused on excellence In the olifield P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com W.O. Number JMS 22483

Survey Date: 03-19-2010

Scale: 1" = 2 Miles

Date. 03-22-2010

DEVON ENERGY PRODUCTION COMPANY, L.P.

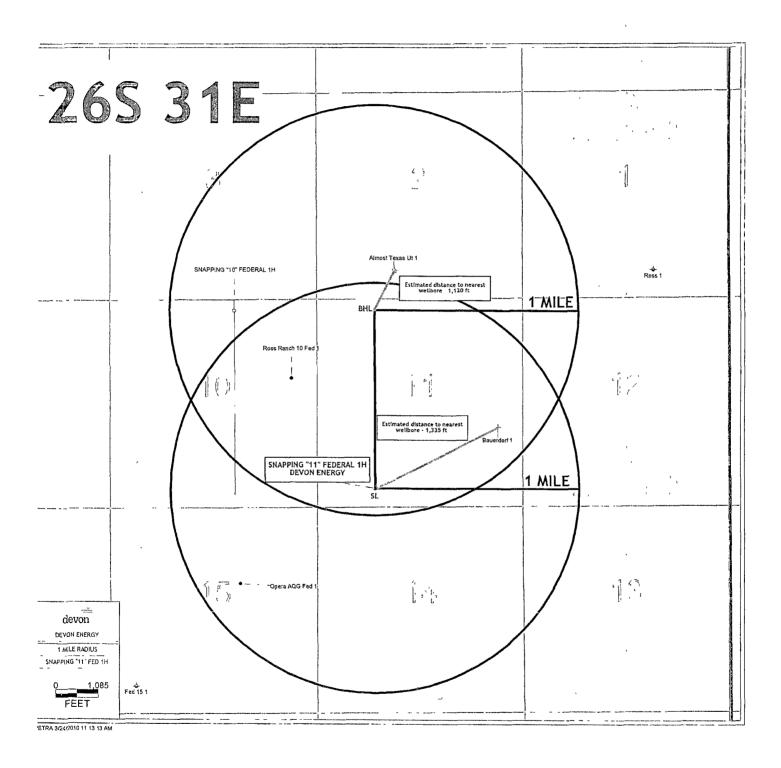


SNAPPING "IF" FEDERAL #111
Located 430' FSL and 1650' FWL
Section 11, Township 26 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com W.O. Number: JMS 22483 Scale. 1" = 2000'

YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND DEVON ENERGY PRODUCTION COMPANY, L.P.



DRILLING PROGRAM

Devon Energy Production Company, LP Snapping 11 Federal 1H

Surface Location 430' FSL & 1650' FWL, Unit N, Sec 11 T26S R31E, Eddy, NM Bottom Hole Location 330' FNL & 1650' FWL, Unit C, Sec 11 T26S R31E, Eddy, NM

- 1. Geologic Name of Surface Formation
 - a Quaternary
- 2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

a.	Fresh Water	150'	
ъ.	Rustler	814'	
c.	Salado	1169'	
d.	Base Salt	3937'	
e.	Delaware/Lamai	4178'	
f	Bell Canyon	4180'	
g	Cherry Canyon	5157'	
h	Brushy Canyon	6505'	Oil
1.	Bone Spring	8167'	Oil & Gas
Pilo	ot Dept	9900'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 875' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4125' and circulating cement to surface. The Bone Springs intervals will be isolated by setting 5 ½" casing to total depth and circulating cement above the base of the 9 5/8" casing

Casing Program:

Hole Size	<u>Hole</u>	OD Csg	Casing	Weight	<u>Collar</u>	Grade
	Interval		Interval	·		
17 ½"	0'-875'	13 3/8"	0'-875'	48#	ST&C	H-40
12 ¼"	875'-3000'	9 5/8"	0'.3000'	36#	LT&C	J-55
12 ¼"	3000'-4125'	9 5/8"	3000'-4125'	40#	LT&C	J-55
8 3/4"	4125' 7800'	5 ½"	0' 7800'	17#	LT&C	N-80
8 3/4"	7800-12.798	5 1/2"	7800-12.798	17#	BT&C	N-80

An 8 3/4" Pilot Hole will be drilled to 9,900' MD and cemented back to KOP The cement plug details and geometry are included below in the cementing program.

Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design
			<u>Factor</u>
13 3/8"	1.88	4.22	7 67
9 5/8" 36#	1 29	2.26	2.96
9 5/8" 40#	1.20	1.84	11 56
5 ½" 17# LTC	1 72	2.12	1 60
5 ½"17# BTC	1 58	1.95	5 25

3. Cement Program:

a 13 3/8" Surface

Lead w/665 sx Class C + 2% bwoc Calcium Chloride + 0.125#/sx CF + 4% bwoc Bentonite + 81.4% FW, 13.5 ppg. Yield 1 75 cf/sx TOC @ surface. Tail w/ 250 sx Class C + 2% bwoc Calcium Chloride +0 125#/sx CF + 56.3% FW, 14.8 ppg, Yield 1 35 cf/sx.

b 9 5/8" Intermediate

Lead w/ 1,115 sx 35 65 POZ (Fly Ash). Class C +5% bwow Sodium Chloride + 0 125#/sx CF + 6% bwoc Bentonite + 107.8% FW, 12.5 ppg Yield 2.04 cf/sx TOC @ surface Tail w/ 300 sx 60.40 POZ (Fly Ash). Class C + 5% bwow Sodium Chloride + 0 125#/sx CF + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64 7% FW, 13.8 ppg Yield 1.37 cf/sx.

c. 5 1/2" Production

1st Stage

Lead w/ 455 sx 35·65 POZ (Fly Ash) Class H + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% FW, 12.5 ppg. Yield 2.01 cf/sx Tail w/ 1,455 sx 50·50 POZ (Fly Ash) Class H + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125#/sx CF + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% FW, 14.2 ppg. Yield 1.31 cf/sx.

DV Tool @ 6000'

2nd Stage

Lead w/ 375 sx Class C + 1% bwow Calcium Chloride + 0.125%#/sx CF + 157 8% FW, 11 4 ppg Yield 2.89 cf/sx. TOC @ 3625' Tail w/ 100 sx 60 40 POZ (Fly Ash) Class C + 1% bwow Sodium Chloride + 0 2% bwoc R-3 + 0 125#/sx CF + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% FW, 13 8 ppg Yield 1 37 cf/sx

Plug 1: 130 sx Class H, 15.6 ppg, 1.18 cf/sx. Top of plug: 9600' Bottom of plug 9900'.

8 3/4" Pilot Hole Plugs

Plug 2: 280 sx Class H, 18 0 ppg, 0.89 cf/sx. Top of plug 77 00' Bottom of Plug 8200'

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 500' above the 9 5/8" casing shoe. All casing is new and API approved

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No 2 as a 3M system prior to drilling out the surface casing shoe

The BOP system used to drill the production hole will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 5M system prior to drilling out the intermediate casing shoe

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

4. Proposed Mud Circulation System

Depth	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
0' - 875'	8 4-9.0	30-34	NC	FW
875'- 4125'	9.8-10.0	28-32	NC	Brine
4125'-12.798'	8 6–9 0	28-32	NC-12	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times.

5 Auxiliary Well Control and Monitoring Equipment

- a A Kelly cock will be in the drill string at all times
- b A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached

6. Logging, Coring, and Testing Program:

- a Drill stem tests will be based on geological sample shows
- b If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM
- c The open hole electrical logging program will be:
 - 1 Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray Compensated Neutron Z Density log with Gamma Ray and Caliper
 - 11 Total Depth to Surface

Compensated Neutron with Gamma Ray

- 111 No coring program is planned
- 1V Additional testing will be initiated subsequent to setting the 5 ½" production casing Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

7. Potential Hazards:

a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4500 psi and Estimated BHT 140° No H2S is anticipated to be encountered.

8. Anticipated Starting Date and Duration of Operations:

a Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



Weatherford*

Drilling Services

Proposal



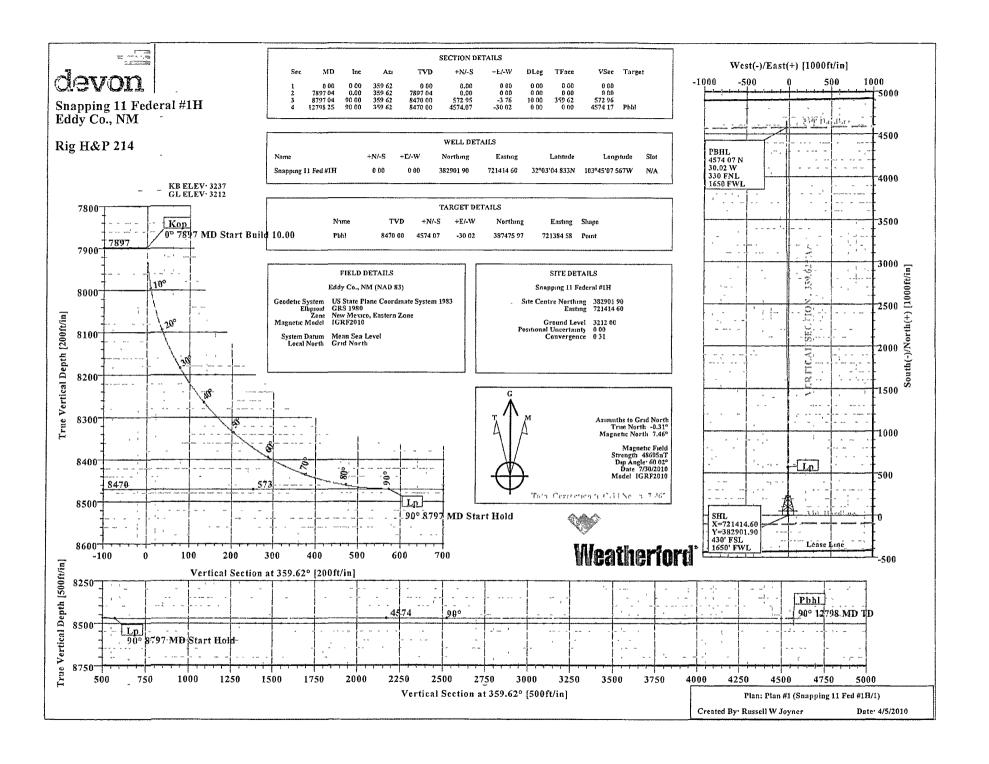
SNAPPING 11 FEDERAL #1H

EDDY COUNTY, NM

WELL FILE PLAN 1

APRIL 5, 2010

Weatherford International, Ltd P O Box 61028 Midland, TX 79711 USA +1 432 561 8892 Main +1 432 561 8895 Fax www.weatherford.com





Weatherford International Ltd.

WFT Plan Report - X & Y's



Wellpath:

Company: Devon Energy
Field: Eddy Co , NM (NAD 83)
Site: Snapping 11 Federal #1H
Well: Snapping 11 Fed #1H

Date: 4/5/2010

Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

Time: 10 51 03

well Snapping 11 Fed #1H, Grid North SITE 3237.0

Well (0 00N,0 00E,359.62Azi)

Minimum Curvature

Db: Sybase

Eddy Co , NM (NAD 83) Field:

Map System: US State Plane Coordinate System 1983

Geo Datum: GRS 1980 Sys Datum: Mean Sea Level Map Zone:

New Mexico, Eastern Zone

Coordinate System: Geomagnetic Model:

Well Centre IGRF2010

Snapping 11 Federal #1H

Site Position.

Northing: Easting:

382901 90 ft 721414 60 ft Latitude: Longitude: North Reference:

32 3 4 833 N 103 45

7.567 W Grid 031 deg

Position Uncertainty: 0 00 ft Ground Level: 3212 00 ft

Snapping 11 Fed #1H

Slot Name:

Latitude:

3 4 833 N

Well Position: +N/-S +E/-W Position Uncertainty:

0 00 ft 0 00 ft 0 00 ft

382901 90 ft 721414 60 ft

Longitude:

Grid Convergence:

103 45 7 567 W

Wellpath: 1 Current Datum: Magnetic Data:

Field Strength:

Vertical Section:

Well:

Height 3237 00 ft 7/30/2010 48605 nT

Northing:

Easting:

+N/-S

fŧ

Drilled From: Tie-on Depth: Above System Datum: Declination: Mag Dip Angle: +E/-W

Surface 000 ft Mean Sea Level 776 deg

359 62

60 02 deg Direction deg

8470 00

Depth From (TVD)

ft 0 00 0.00

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W	DLS deg/100f	Build t deg/100f	Turn t deg/100ft	TFO deg	Target	77 ****	
0 00	0.00	359 62	0 00	0.00	0 00	0.00	0 00	0.00	0.00			-
7897 04	0 00	359 62	7897 04	0 00	0 00	0 00	0 00	0 00	0.00			
8797 04	90 00	359 62	8470 00	572 95	-3 76	10 00	10 00	0 00	359 62			
12798 25	90 00	359.62	8470 00	4574 07	-30 02	0 00	0 00	0 00	0 00	Pbh'		_

MI ft) 	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	-	Comment
780	00 00	0 00	359 62	7800 00	0 00	0 00	0 00	0 00	382901 90	721414 60		
789	7 04	0 00	359 62	7897 04	0 00	0 00	0 00	0 00	382901 90	721414 60	Kop	
790	00 00	0 30	359 62	7900 00	0 01	0 00	0 01	10 00	382901 91	721414 60	•	
800	00 00	10 30	359 62	7999 45	9 23	-0 06	9 23	10 00	382911 13	721414 54		
810	00 00	20 30	359 62	8095 78	35 57	-0 23	35 57	10.00	382937 47	721414 37		
820	00 00	30 30	359 62	8186 08	78 25	-0 51	78 25	10 00	382980 15	721414 09		
830	00 00	40 30	359 62	8267 59	135 95	-0 89	135 95	10 00	383037 85	721413 71		
840	00 00	50 30	359.62	8337 85	206 93	-1 36	206 94	10 00	383108 83	721413 24		
850	00 00	60 30	359 62	8394 71	289 04	-1 90	289 04	10.00	383190 94	721412 70		
860	00 00	70 30	359 62	8436 45	379 77	-2 49	379 78	10 00	383281.67	721412 11		
870	00 00	80 30	359.62	8461 80	476 37	-3 13	476 38	10 00	383378 27	721411.47		
879	7 04	90 00	359 62	8470 00	572 95	-3 76	572 96	10 00	383474 85	721410 84	Lp	
880	00 00	90 00	359 62	8470 00	575 90	-3 78	575.92	0 00	383477 80	721410 82		
890	00 00	90 00	359 62	8470 00	675 90	-4 44	675 92	0 00	383577 80	721410 16	,	
900	00 00	90 00	359 62	8470 00	775 90	-5 09	775 92	0 00	383677.80	721409 51		
910	00 00	90 00	359.62	8470 00	875 90	-5 75	875 92	0 00	383777 80	721408 85		
920	00 00	90.00	359 62	8470 00	975 89	-6.40	975 92	0 00	383877 79	721408 20		
930	00 00	90 00	359 62	8470 00	1075 89	-7 06	1075 92	0 00	383977 79	721407 54		
940	00 00	90 00	359 62	8470 00	1175 89	-7 72	1175 92	0 00	384077 79	721406 88		
950	00 00	90 00	359 62	8470 00	1275 89	-8.37	1275 92	0 00	384177 79	721406 23		



Weatherford International Ltd. WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co , NM (NAD 83)
Site: Snapping 11 Federal #1H
Well: Snapping 11 Fed #1H Wellpath: 1

Date: 4/5/2010 T Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

Time: 10 51 03 Page: 2
:: Well Snapping 11 Fed #1H, Grid North
SITE 3237 0
Well (0 00N,0 00E,359 62Azi)
I: Minimum Curvature Db: Sybase

9600 00	deg	deg	ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft		Commen
	90 00	359 62	8470 00	1375 89	-9 03	1375 92	0 00	384277 79	721405 57		
9700 00	90 00	359 62	8470 00	1475 88	-9 6 9	1475 92	0.00	384377 78	721404 91		
9800 00	90 00	359 62	8470 00	1575 88	-10 34	1575 92	0 00	384477 78	721404 26		
9900 00	90 00	359 62	8470 00	1675 88	11 00	1675 92	0 00	384577 78	721403 60		
10000 00	90 00	359 62	8470 00	1775 88	-11 66	1775 92	0 00	384677 78	721402 94		
10100 00	90 00	359 62	8470 00	1875 88	-12 31	1875 92	0 00	384777 78	721402 29		•
10200 00	90 00	359 62	8470 00	1975 87	-12 97	1975 92	0 00	384877 77	721401.63		
10300 00	90 00	359 62	8470.00	2075 87	-13 62	2075 92	0.00	384977 77	721400 98		
10400 00	90 00	359 62	8470 00	2175 87	-14 28	2175 92	0 00	385077 77	721400 32		
10500 00	90 00	359 62	8470 00	2275 87	-14 94	2275 92	0 00	385177 77	721399 66		, ,
10600 00	90 00	359 62	8470 00	2375 86	-15 59	2375 92	0 00	385277 76	721399 01		•
10700 00	90 00	359 62	8470 00	2475 86	-16 25	2475 92	0.00	385377 76	721398 35		
10800 00	90 00	359 62	8470 00	2575 86	-16 91	2575 92	0 00	385477 76	721397 69		
10900 00	90 00	359 62	8470 00	2675 86	-17 56	2675 92	0.00	385577.76	721397 04		
11000 00	90 00	359 62	8470 00	2775 86	-18 22	2775 92	0 00	385677 76	721396.38		
11100 00	90 00	359 62	8470.00	2875 85	-18 87	2875 92	0 00	385777 75	721395 73		
11200 00	90 00	359 62	8470 00	2975 85	-19 53	2975 92	0 00	385877 75	721395 07		
11300 00	90 00	359 62	8470 00	3075 85	-20 19	3075 92	0 00	385977 75	721394 41		
11400 00	90 00	359 62	8470 00	3175 85	-20 84	3175 92	0 00	386077 75	721393 76		
11500 00	90 00	359 62	8470 00	3275 85	-21 50	3275 92	0 00	386177 75	721393 10		
11600 00	90 00	359 62	8470 00	3375 84	-22 16	3375 92	0 00	386277 74	721392 44		
11700 00	90 00	359 62	8470.00	3475 84	-22.81	3475 92	0 00	386377 74	721391 79		
11800 00	90 00	359.62	8470.00	3575 84	-23 47	3575 92	0 00	386477 74	721391 13		
11900 00	90 00	359.62	8470 00	3675 84	-24 12	3675 92	0 00	386577 74	721390.48	1	
12000 00	90 00	359 62	8470 00	3775 83	-24 78	3775 92	0 00	386677 73	721389 82		
12100 00	90 00	359 62	8470 00	3875 83	-25 44	3875 92	0 00	386777 73	721389 16		
12200 00	90 00	359 62	8470 00	3975 83	-26 09	3975 92	0 00	386877 73	721388 51		
12300 00	90 00	359 62	8470 00	4075 83	-26 75	4075 92	0 00	386977 73	721387 85		
12400 00	90 00	359 62	8470 00	4175 83	-20 75 -27 41	4175 92	0 00	387077 73	721387.19		
12500 00	90 00	359 62	8470 00	4275 82	-28 06	4275 92	0 00	387177 72	721386 54		
12600 00	90 00	359 62	8470 00	4375 82	-28 72	4375 92	0.00	387277 72	721385.88		
12700 00	90 00	359 62	8470 00	4475 82	-29 38	4475 92	0.00	387377 72	721385.00		
12700 00	90 00	359 62	8470 00	4473 62 4574 07	-29 36 -30 02	4574 17	0 00	387475 97	721383 22	Pbhl	

1 argets									
Name	Description Dip. Dir.	TVD ft	+N/-S ft	+ E/-W ft	Map Northing ft	Map Easting ft		atitude> lin Sec	< 'Longitude'> Deg Min Sec
Pbhl		8470 00	4574 07	-30 02	387475 97	721384 58	32	3 50 099 N	103 45 7 630 W

	Casing Points					
	MD	TVD	Diameter	Hole Size	Name	
ı						
ŀ						
Ш						

MD ft	TVD ft		
	7897 04 8470 00	Kop Lp	
12798 25 8	8470.00	Pbhl	*1

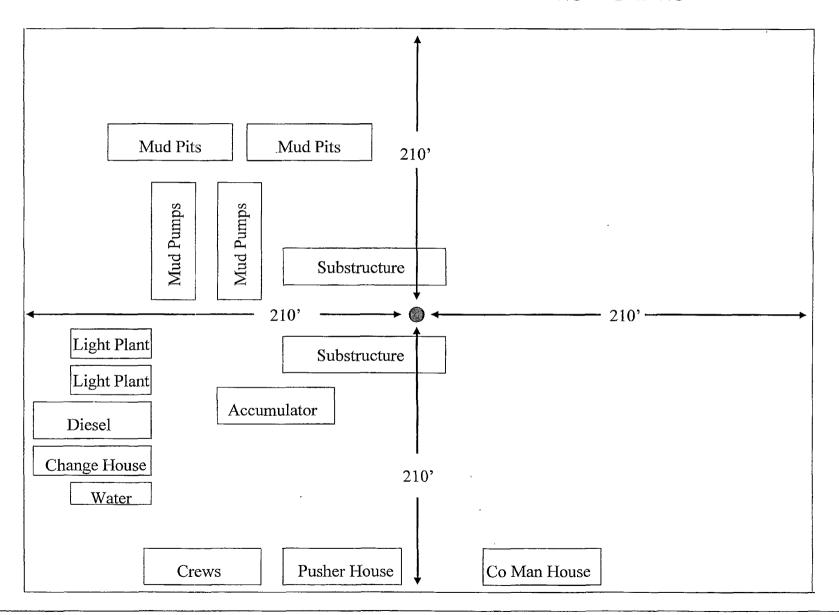


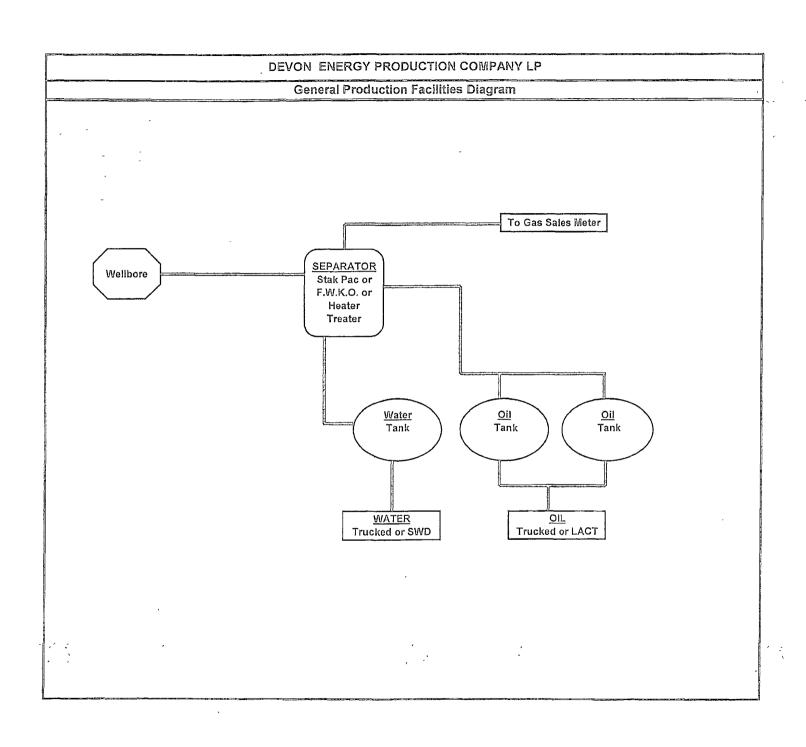
Weatherford Drilling Services

GeoDec v5.03

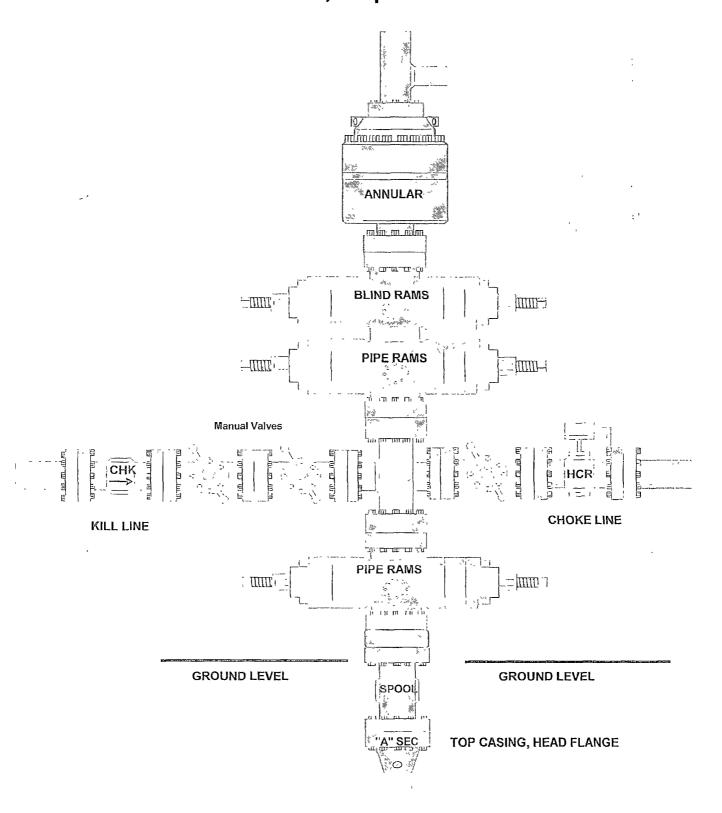
Report Date Job Number	April 05, 2010				
Customer	Devon Energy				
Well Name.	Snapping 11 Federal	L #1н	.1		
API Number					
Rig Name		_			
Location Block [,]	Eddy Co., NM				
Engineer	R joyner				
US State Plane 1983	3	Geodetic Latitude / Longitude			
System. New Mexico	o Eastern Zone	System Latitude / Longitude			
Projection Transver	se Mercator/Gauss Kruger	Projection Geodetic Latitude and Longitude			
Datum: North Ameri	can Datum 1983	Datum [.] North American Datum 1983			
Ellipsoid GRS 1980		Ellipsoid GRS 1980 Latitude 32.0513447 DEG			
North/South 382901	1 900 USFT				
East/West 721414.6	300 USFT	Longitude -103.7520973 DEG			
Grid Convergence: 31°					
Total Correction. +7	′.45°				
Geodetic Location V	VGS84 Elevation	n= 0.0 Meters			
Latitude = 32	.05134° N 32°	3 min 4.841 sec			
Longitude = 103	.75210° W 103° 4	45 min 7.551 sec			
Magnetic Declination	n = 7.76°	[True North Offset]			
Local Gravity =	.9988 g	CheckSum =	6494		
Local Field Strength	= 48601 nT	Magnetic Vector X = 2	4066 nT		
Magnetic Dip =	60.02°	Magnetic Vector Y =	3281 nT		
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	2096 nT		
Spud Date =	Jul 30, 2010	Magnetic Vector H = 2	4289 nT		
Signed		Date ·			

DEVON PAD DIMENSIONS

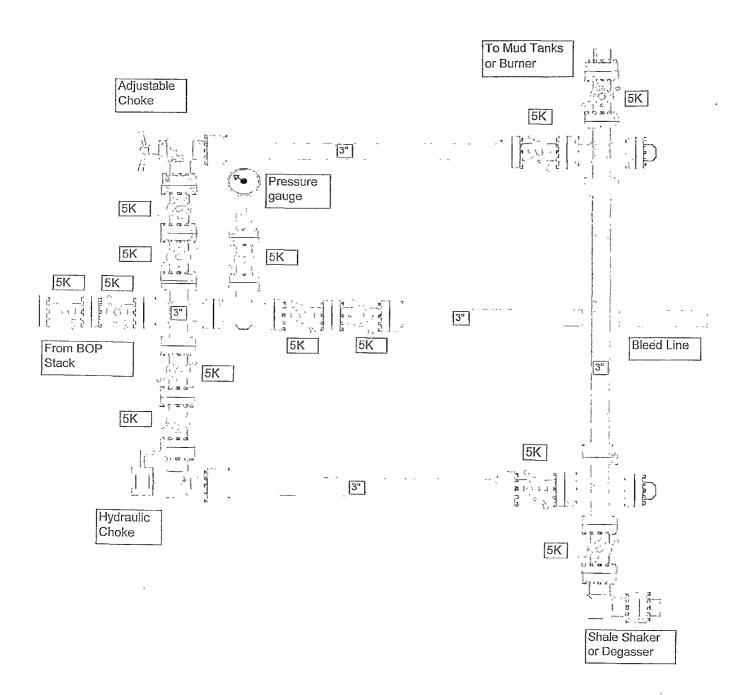




13-5/8" x 5,000 psi BOP Stack



5,000 PSI CHOKE MANIFOLD



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP Snapping 11 Federal 1H

Surface Location 430' FSL & 1650' FWL, Unit N, Sec 11 T26S R31E, Eddy, NM Bottom hole Location 330' FNL & 1650' FWL, Unit C, Sec 11 T26S R31E, Eddy, NM

- Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP boile.
- Wear ring will be properly installed in head
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
- 4 All fittings will be flanged.
- A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times
- 6 All choke lines will be anchored to prevent movement
- 7 All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string
- 8 Will maintain a kelly cock attached to the kelly
- Hand wheels and wrenches will be properly installed and tested for safe operation
- 10 Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible
- 11 All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein, that I am familiar with the conditions that presently exist, that I have full knowledge of State and Federal laws applicable to this operation, that the statements made in this APD package are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved I also certify that I, or Devon Energy Production Company, L.P am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U S C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD

Executed this 14th day of April, 2010

Printed Name Judy A Barnett

Signed Name
Position Title Regulatory Analyst

Address 20 North Broadway, OKC OK 73102

Telephone (405)-228-8699

Field Representative (if not above signatory)

Address (if different from above).

Telephone (if different from above)

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, LP
LEASE NO.:	NM89057
WELL NAME & NO.:	Snapping 11 Federal 11H
SURFACE HOLE FOOTAGE:	0430' FSL & 1650' FWL
BOTTOM HOLE FOOTAGE	0330' FNL & 1650' FWL
LOCATION:	Section 11, T 26 S., R 31 E., NMPM
COUNTY·	Eddy County, New Mexico

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.

r
General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Solid Waste Containment
Range Fence & Waterline
Tank Battery/Fluid Storage Prohibited
Playa Protection
⊠ Construction
Notification
V-Door Direction – Not stipulated
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
Logging Requirements
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)

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

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway 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).

Livestock Watering Requirement

The freshwater pipeline will be avoided wherever feasible. Where crossing over the pipeline is necessary, the operator shall place sufficient earthen material atop the pipeline to prevent damage. If excavation of the line is required, the operator will notify the BLM-CFO to obtain approval prior to any action which could stop or diminish the flow of water

Tank Battery / Fluid Storage not Allowed

As per the applicant's Surface Use Plan of Operations and agreements reached during the onsite inspection – no liquid production is to be placed on location. This includes produced water and oil. Well treatment fluids are allowed on location provided a secondary containment system (such as a drip-pan/basin) is in place.

Playa Protection

Surface disturbance will not be allowed within 450 feet of playa; and the interim reclamation on the pad will be 100 feet from the north and 50 feet from the west.

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.

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) 234-5972 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

Surface disturbance will not be allowed within 450 feet of playa; and the interim reclamation on the pad will be 100 feet from the north and 50 feet from the west.

B. V-DOOR DIRECTION: Not stipulated

C. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 10 inches in depth. The topsoil will be used for interim and final reclamation.

D. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

E. 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.

F. 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.

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 thirty (30) 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

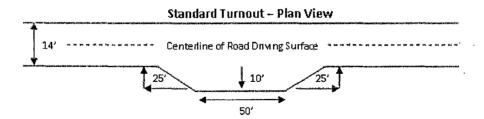
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1, cross section and plans for typical road construction.

Ditching

Ditching shall be required on the uphill side 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 be constructed on all blind curves. Turnouts shall conform to the following diagram:

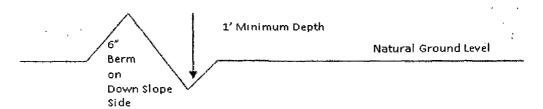


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road 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 cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

Where entry is required 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 fence(s).

Public Access

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

- center line of roadway 1001 custion
Intervatible humovis shall be constituted on
all single lane roads on all bind curvas with
additional tunouss as needed to keep spacing
below 1000 feet full turnous widen Typical Turnout Plan embonkment - 2* crown s'ope **Embankment Section** road type 03 - 05 E/H earth surface aggregate surface .02 - .04 h/h 02 - 03 h/h Depth measured from the be are of the disch Side Hill Section (slope 2 - 4° a) **Typical Outsloped Section Typical Inslope Section**

Figure 1 - Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

⊠ Eddy County

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

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. 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.
- 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.
- 4 The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will 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.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation in the Delaware and Bone Spring Groups. Possible high pressure gas in the Wolfcamp Formation. (Pilot Hole)

- The 13-3/8 inch surface casing shall be set at approximately 875 feet (a minimum of 25 feet 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 is to include the lead cement slurry.
 - 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.
- 2 The minimum required fill of cement behind the 9-5/8 inch intermediate casing is. Set this casing in the Lamar Limestone.
 - ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (575-361-2822) prior to tag of bottom plug, which must be a minimum of 200' in length. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug.

- 3 The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall
 - ☑ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall.
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 4 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.

C. 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
- 1 Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. Operator installing a 5M system and testing as a 3M.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M 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.

- 3 The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. Casing cut-off and BOP installation will not be initiated until the cement has had a minimum of 8 hours setup time for a water basin. The casing shall remain stationary and under pressure for at least eight hours after the operator places the cement. In the potash area, the minimum time is 12 hours and the casing shall remain stationary and under pressure during this time period. Casing shall be under pressure if the operator uses some acceptable means of holding pressure or if the operator employs one or more float valves to hold the cement in place. Testing the BOP/BOPE against a plug can commence after meeting the above conditions plus the BOP installation time.
 - b. The tests shall be done by an independent service company utilizing a test plug.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d 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.
 - e. 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.
 - f. 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. (**Pilot Hole**)

D. DRILLING MUD (Pilot Hole)

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.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

CŔW 051710

VIII. 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.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

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, Munsell Soil Color Chart # 5Y 4/2

- B. PIPELINES not requested in APD
- C. ELECTRIC LINES not requested in APD

IX. 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).

X. 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).

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 <u>no</u> 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:

Species	l <u>b/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