Form 3160-3 (June 2015)

# **UNITED STATES**

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

EPARTMENT OF	THE INTERIOR
REAU OF LAND	MANAGEMENT

DEPARTMENT OF THE I	5. Lease Serial No.	5. Lease Serial No.		
BUREAU OF LAND MAN.	6 If Indian Allataa	or Tribo Nomo		
APPLICATION FOR PERMIT TO D	RILL OR	KEENIEK	6. If Indian, Allotee	or Tribe Name
1a. Type of work: DRILL R	EENTER		7. If Unit or CA Ag	reement, Name and No.
1b. Type of Well: Oil Well Gas Well O	ther		8. Lease Name and	Well No.
1c. Type of Completion: Hydraulic Fracturing Si	ingle Zone	Multiple Zone		
2. Name of Operator			9. API Well No. 30 015 4697	72
3a. Address	3b. Phone N	o. (include area code)	10. Field and Pool,	or Exploratory
4. Location of Well (Report location clearly and in accordance to	with any State	requirements.*)	11. Sec., T. R. M. o	r Blk. and Survey or Area
At surface				
At proposed prod. zone				
14. Distance in miles and direction from nearest town or post off	ice*		12. County or Paris	h 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac	eres in lease 17. Sp	pacing Unit dedicated to t	his well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed	d Depth 20, B	LM/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will start*	23. Estimated durat	ion
	24. Attac	hments		
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1, and t	he Hydraulic Fracturing 1	rule per 43 CFR 3162.3-3
Well plat certified by a registered surveyor.     A Drilling Plan.		4. Bond to cover the operation Item 20 above).	ntions unless covered by a	n existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		<ul><li>5. Operator certification.</li><li>6. Such other site specific i BLM.</li></ul>	nformation and/or plans as	s may be requested by the
25. Signature	Name	(Printed/Typed)		Date
Title				<u>I</u>
Approved by (Signature)	Name	(Printed/Typed)		Date
Title	Office			
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	nt holds legal o	or equitable title to those rig	thts in the subject lease w	hich would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements				any department or agency

Entered 04/06/2020 - Kurt Simmons NI WOCD WITH CONDITIONS

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

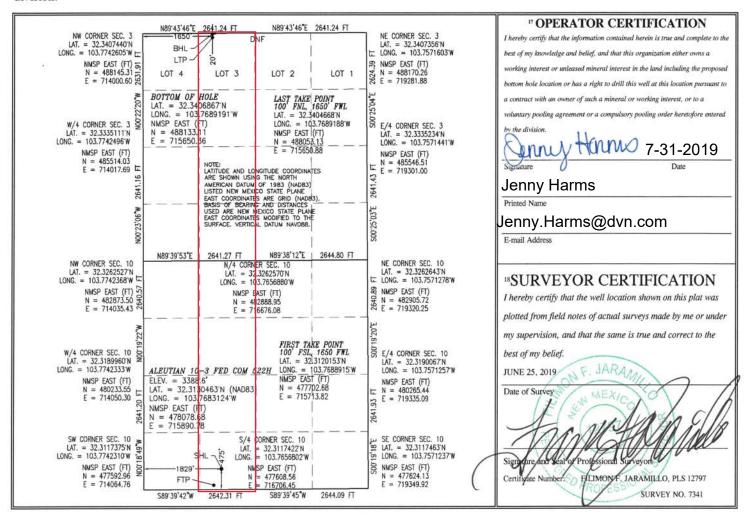
AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30 015 46972	<sup>2</sup> Pool Code 39350	Livingston Ridge Bone Spring		
<sup>4</sup> Property Code 323063		Property Name  AN 10-3 FED COM  5		
OGRID No. 6137		Operator Name ODUCTION COMPANY, L.P.	<sup>9</sup> Elevation 3388.6	

UL or lot no.	Section 10	Township 23 S	Range 31 E	Lot Idn	Feet from the 475	North/South line SOUTH	Feet from the 1829	East/West line WEST	County EDDY
			пB	ottom Ho	ole Location	If Different Fr	om Surface		
UL or lot no.	Section 3	Township 23 S	Range 31 E	Lot Idn	Feet from the 20	North/South line NORTH	Feet from the 1650	East/West line WEST	County EDDY
Dedicated Acre	s <sup>13</sup> Joint	or Infill 14 (	Consolidation	n Code		<u> </u>	15 Order No.		

No Mis wable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent	X	As Drill	ed										
API#			]										
Ope	rator Nan	ne:	1			Prope	rty Nam	e:					Well Number
DEV	ON ENE	RGY PROI	DUCTION	I CO., I	L.P.		ALEUT	IAN 10	)-3 FEC	со	М		522H
Kick C	off Point (	КОР)											
UL V	Section 10	Township 23S	Range 31E	Lot	Feet 200 FS	SL F	rom N/S	Feet 1650	) FW		n E/W	County EDDY	
Latitu 32.3	<sup>de</sup> 122930	0			Longitud	<sup>de</sup> 76889	9700					NAD 83	
Eirct T	ake Point	+ (FTP)											
UL <b>N</b>	Section 10	Township 23S	Range <b>31E</b>	Lot	Feet 100		rom N/S	Feet 165		Fron WE	n E/W	County <b>EDDY</b>	
Latitu			311		Longitud	de	768891				<u> </u>	NAD 83	
Last T	Section 3	(LTP) Township 23S	Range <b>31E</b>	Lot 3	Feet 100	From I	N/S Fe <b>TH 1</b>	et <b>650</b>	From WES	E/W	Count		
Latitu		104668			Longitud				83				
s this	well the	defining we	ell for the	Horizo	ntal Spac	cing Un	it?	YES					
s this	well an ir	nfill well?	ĺ	NO	]								
	I is yes p ng Unit.	lease prov	ide API if	availa	ble, Ope	rator N	lame ar	nd well	numb	er fo	r Defir	ning well	for Horizontal
API#													
Oper	ator Nam	ne:				Proper	rty Nam	e:					Well Number

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

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

#### GAS CAPTURE PLAN

Date: //31/2019	
⊠ Original	Devon & OGRID No.: <u>Devon Energy Production Co., L.P.</u> 6137
☐ Amended - Reason for Amendment:	
*	en by the Devon to reduce well/production facility flaring/venting for new completion
(new drill, recomplete to new zone, re-frac) activ	TLY.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

# Well(s)/Production Facility - Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Aleutian 10-3 Fed Com 210H		UNIT, N, SEC 10, T23S,31E	475 FSL 1889 FWL			ALEUTIAN 10 CTB 3
Aleutian 10-3 Fed Com 522H		UNIT, N, SEC 10, T23S,31E	475 FSL 1829 FWL			ALEUTIAN 10 CTB 3
Aleutian 10-3 Fed Com 512H		UNIT, N, SEC 10, T23S,31E	475 FSL 1859 FWL			ALEUTIAN 10 CTB 3
Aleutian 10-3 Fed Com 211H		UNIT, M, SEC 10, T23S,31E	525 FSL 970 FWL			ALEUTIAN 10 CTB 3
Aleutian 10-3 Fed Com 212H		UNIT, M, SEC 10, T23S,31E	525 FSL 1000 FWL			ALEUTIAN 10 CTB 3
Aleutian 10-3 Fed Com 521H		UNIT, M, SEC 10, T23S,31E	525 FSL 910 FWL			ALEUTIAN 10 CTB 3
Aleutian 10-3 Fed Com 511H		UNIT, M, SEC 10, T23S,31E	525 FSL 940 FWL			ALEUTIAN 10 CTB 3

#### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if DCP system is in place. The gas produced from production facility is dedicated to <u>DCP</u> and will be connected to <u>DCP</u> low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. <u>Devon</u> provides (periodically) to <u>DCP</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Devon</u> and <u>DCP</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>DCP</u> Processing Plant located in Sec 19, Twn. 19S, Rng. 32E, Lea County, New Mexico. 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 <u>DCP</u> 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

- $\circ$   $\;$  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
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

# 1. Geologic Formations

TVD of target	8940	Pilot hole depth	N/A
MD at TD:	19034	Deepest expected fresh water	

# Basin

Dasin		777 . 72.54	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
RUSTLER	625		
SALADO	1015		
BASE OF SALT	4200		
DELAWARE	4375		
BONE SPRING	8255		
BONE SPRING 1ST	9290		
BONE SPRING 2ND	9715		
_			

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole Size	Casing	Interval	Csg. Size	ze Wt Grade		Conn	Min SF	Min SF	Min SF
Hole Size	From	То	Csg. Size	(PPF)	Graue	Colli	Collapse	Burst	Tension
17 1/2	0	650 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	4350 TVD	9 5/8	40.0	J-55	ВТС	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	ВТС	1.125	1.25	1.6
				BLM M	linimum Safe	ety Factor	1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specficition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading	Y
assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	Y
of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there strings cemented to surface?	

3. Cementing Program (3-String Primary Design)

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	509	Surf	13.2	1.4	Lead: Class C Cement + additives
Total	473	Surf	9.0	3.3	Lead: Class C Cement + additives
Int	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
	461	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	461	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	473	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	386	500' tieback	9.0	3.3	Lead: Class H /C + additives
Fioduction	2056	KOP	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:																														
			Anı	Annular		50% of rated working pressure																														
I4 1	12 50"	534	Blind	d Ram	X																															
Int 1	13-58"	5M	Pipe	Ram		511																														
			Doub	le Ram	X	5M																														
			Other*																																	
	13-5/8"	5M	Annular		X	50% of rated working pressure																														
Production			5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	514	534	514	5M	5M	5M	5M	5M	5M	Blind	d Ram	X	
Production																							Pipe	Ram		5M										
				Doub	le Ram	X	JIVI																													
			Other*																																	
			Annular (5M)  Blind Ram  Pipe Ram  Double Ram																																	
			Other*																																	

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	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

6. Logging and Testing Procedures

Logging, C	Logging, Coring and Testing								
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the								
X	Completion Report and sbumitted 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	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4184
Abnormal temperature	No

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

Hydrogren 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.

	cheountered	ineasured values and formations will be provided to the BEW.
	N	H2S is present
Ī	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 pad.
- 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. At that time an approved BOP stack will be nippled 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**

Eddy County (NAD 83 NM Eastern) Sec 10-T23S-R31E Aleutian 10-3 Fed Com 522H

Wellbore #1

Plan: Permit Plan 1

# **Standard Planning Report - Geographic**

17 July, 2019

Database: EDM r5000.141\_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

Site:

Map Zone:

Sec 10-T23S-R31E Aleutian 10-3 Fed Com 522H

Well: Aleutian 10-3
Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Aleutian 10-3 Fed Com 522H

RKB @ 3413.60ft RKB @ 3413.60ft

Grid

Minimum Curvature

Project Eddy County (NAD 83 NM Eastern)

Map System: U Geo Datum: No

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone System Datum:

Mean Sea Level

Site Sec 10-T23S-R31E

488,145.31 usft Northing: Site Position: Latitude: 32.340744 -103.774261 714,000.60 usft Мар Easting: From: Longitude: Position Uncertainty: 0.00 ft Slot Radius: 0.30 13-3/16 " **Grid Convergence:** 

Well Aleutian 10-3 Fed Com 522H **Well Position** +N/-S 0.00 ft Northing: 478,078.68 usft Latitude: 32.313046 +E/-W 0.00 ft Easting: 715,890.78 usft Longitude: -103.768313 0.50 ft **Position Uncertainty** Wellhead Elevation: **Ground Level:** 3,388.60 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 60.09 47,756.89963528 IGRF2015 7/15/2019 6.83

Permit Plan 1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 358.63

Plan Survey Tool Program Date 7/17/2019

Depth From Depth To

(ft) Survey (Wellbore)

Tool Name Remarks

1 0.00 19,033.83 Permit Plan 1 (Wellbore #1) M

MWD+HDGM OWSG MWD + HDGM

**Plan Sections** Vertical Measured Dogleg Ruild Turn Inclination +N/-S Depth Azimuth Depth +E/-W Rate Rate Rate TFO (°/100usft) (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/100usft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,500.00 0.00 0.00 2,500.00 0.00 0.00 0.00 0.00 0.00 0.00 2.859.89 3.60 213.06 2.859.65 -9.47 -6.16 1.00 1.00 0.00 213.06 -174.89 7.787.18 3.60 213.06 7,777.23 -268.69 0.00 0.00 0.00 0.00 8,027.11 0.00 0.00 8,017.00 -275.00 -179.00 1.50 -1.50 0.00 180.00 8,377.15 0.00 0.00 8,367.04 -275.00 -179.00 0.00 0.00 0.00 0.00 9,277.15 90.00 359.66 8,940.00 297.95 -182.41 10.00 10.00 0.00 359.66 PBHL - Aleutian 10-3 8,940.00 -240.42 19,033.83 90.00 359.66 10,054.45 0.00 0.00 0.00 0.00 PBHL - Aleutian 10-3

Database: EDM r5000.141\_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 10-T23S-R31E

Well: Aleutian 10-3 Fed Com 522H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Aleutian 10-3 Fed Com 522H

RKB @ 3413.60ft RKB @ 3413.60ft

Grid

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	478,078.68	715,890.78	32.313046	-103.768313
100.00	0.00	0.00	100.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
200.00	0.00	0.00	200.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
300.00	0.00	0.00	300.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
400.00	0.00	0.00	400.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
500.00	0.00	0.00	500.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
600.00	0.00	0.00	600.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
700.00	0.00	0.00	700.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
800.00	0.00	0.00	800.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
900.00	0.00	0.00	900.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,000.00	0.00	0.00	1,000.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,100.00	0.00	0.00	1,100.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,200.00	0.00	0.00	1,200.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,300.00 1,400.00	0.00	0.00 0.00	1,300.00 1,400.00	0.00 0.00	0.00 0.00	478,078.68	715,890.78	32.313046	-103.768313 -103.768313
1,500.00	0.00	0.00	1,500.00	0.00	0.00	478,078.68 478,078.68	715,890.78 715,890.78	32.313046 32.313046	-103.768313
1,600.00	0.00	0.00	1,600.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,700.00	0.00	0.00	1,700.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,800.00	0.00	0.00	1,800.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
1,900.00	0.00	0.00	1,900.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,000.00	0.00	0.00	2,000.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,100.00	0.00	0.00	2,100.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,200.00	0.00	0.00	2,200.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,300.00	0.00	0.00	2,300.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,400.00	0.00	0.00	2,400.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,500.00	0.00	0.00	2,500.00	0.00	0.00	478,078.68	715,890.78	32.313046	-103.768313
2,600.00	1.00	213.06	2,599.99	-0.73	-0.48	478,077.95	715,890.30	32.313044	-103.768314
2,700.00	2.00	213.06	2,699.96	-2.93	-1.90	478,075.76	715,888.87	32.313038	-103.768319
2,800.00	3.00	213.06	2,799.86	-6.58	-4.28	478,072.10	715,886.49	32.313028	-103.768327
2,859.89	3.60	213.06	2,859.65	-9.47	-6.16	478,069.21	715,884.61	32.313020	-103.768333
2,900.00	3.60	213.06	2,899.68	-11.58	-7.54	478,067.10	715,883.24	32.313015	-103.768337
3,000.00	3.60	213.06	2,999.49	-16.84	-10.96	478,061.84	715,879.81	32.313000	-103.768348
3,100.00	3.60	213.06	3,099.29	-22.10	-14.39	478,056.58	715,876.39	32.312986	-103.768360
3,200.00	3.60	213.06	3,199.09	-27.36	-17.81	478,051.32	715,872.97	32.312971	-103.768371
3,300.00	3.60	213.06	3,298.90	-32.62	-21.23	478,046.06	715,869.54	32.312957	-103.768382
3,400.00	3.60	213.06	3,398.70	-37.88	-24.66	478,040.80	715,866.12	32.312943	-103.768393
3,500.00	3.60	213.06	3,498.50	-43.14	-28.08	478,035.54	715,862.69	32.312928	-103.768404
3,600.00	3.60	213.06	3,598.30	-48.41	-31.51	478,030.28	715,859.27	32.312914	-103.768415
3,700.00	3.60	213.06	3,698.11	-53.67	-34.93	478,025.01	715,855.84	32.312899	-103.768427
3,800.00	3.60	213.06	3,797.91	-58.93	-38.36	478,019.75	715,852.42	32.312885	-103.768438
3,900.00	3.60	213.06	3,897.71	-64.19	-41.78	478,014.49	715,849.00	32.312871	-103.768449
4,000.00	3.60	213.06	3,997.52	-69.45	-45.21	478,009.23	715,845.57	32.312856	-103.768460
4,100.00	3.60	213.06	4,097.32	-74.71	-48.63	478,003.97	715,842.15	32.312842	-103.768471
4,200.00	3.60	213.06	4,197.12	-79.97	-52.05	477,998.71	715,838.72	32.312827	-103.768482
4,300.00	3.60	213.06	4,296.92	-85.23	-55.48	477,993.45	715,835.30	32.312813	-103.768494
4,400.00	3.60	213.06	4,396.73	-90.49	-58.90	477,988.19	715,831.87	32.312799	-103.768505
4,500.00	3.60	213.06	4,496.53	-95.75	-62.33	477,982.93	715,828.45	32.312784	-103.768516
4,600.00	3.60	213.06	4,596.33	-101.01	-65.75	477,977.67	715,825.03	32.312770	-103.768527
4,700.00	3.60	213.06	4,696.13	-106.27	-69.18	477,972.41	715,821.60	32.312755	-103.768538
4,800.00	3.60	213.06	4,795.94	-111.54	-72.60 76.00	477,967.15	715,818.18	32.312741	-103.768549
4,900.00	3.60	213.06	4,895.74	-116.80	-76.02 -70.45	477,961.88	715,814.75	32.312726	-103.768561
5,000.00	3.60	213.06	4,995.54	-122.06	-79.45	477,956.62	715,811.33	32.312712	-103.768572 -103.768583
5,100.00 5,200.00	3.60 3.60	213.06 213.06	5,095.35 5,105.15	-127.32 -132.58	-82.87 -86.30	477,951.36 477,946.10	715,807.90 715,804.48	32.312698 32.312683	-103.768583
5,300.00	3.60	213.06	5,195.15 5,294.95	-132.56 -137.84	-89.72	477,940.84	715,804.46	32.312669	-103.768594
3,300.00	5.00	∠ 10.00	J,∠J <del>4</del> .JJ	-101.04	-UJ.12	711,340.04	7 10,001.00	32.312003	-103.700003

Database: EDM r5000.141\_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

**Site:** Sec 10-T23S-R31E

Well: Aleutian 10-3 Fed Com 522H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Aleutian 10-3 Fed Com 522H

RKB @ 3413.60ft RKB @ 3413.60ft

Grid

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	3.60	213.06	5,394.75	-143.10	-93.15	477,935.58	715,797.63	32.312654	-103.768617
5,500.00	3.60	213.06	5,494.56	-148.36	-96.57	477,930.32	715,794.21	32.312640	-103.768628
5,600.00	3.60	213.06	5,594.36	-153.62	-99.99	477,925.06	715,790.78	32.312626	-103.768639
5,700.00	3.60	213.06	5,694.16	-158.88	-103.42	477,919.80	715,787.36	32.312611	-103.768650
5,800.00	3.60	213.06	5,793.97	-164.14	-106.84	477,914.54	715,783.93	32.312597	-103.768661
5,900.00	3.60	213.06	5,893.77	-169.41	-110.27	477,909.28	715,780.51	32.312582	-103.768672
6,000.00	3.60	213.06	5,993.57	-174.67	-113.69	477,904.02	715,777.08	32.312568	-103.768684
6,100.00	3.60	213.06	6,093.37	-179.93	-117.12	477,898.75	715,773.66	32.312554	-103.768695
6,200.00	3.60	213.06	6,193.18	-185.19	-120.54	477,893.49	715,770.24	32.312539	-103.768706
6,300.00	3.60	213.06	6,292.98	-190.45	-123.96	477,888.23	715,766.81	32.312525	-103.768717
6,400.00	3.60	213.06	6,392.78	-195.71	-127.39	477,882.97	715,763.39	32.312510	-103.768728
6,500.00 6,600.00	3.60 3.60	213.06 213.06	6,492.58 6,592.39	-200.97 -206.23	-130.81 -134.24	477,877.71 477,872.45	715,759.96 715,756.54	32.312496 32.312481	-103.768739 -103.768751
6,700.00	3.60	213.06	6,692.19	-206.23 -211.49	-134.24 -137.66	477,867.19	715,750.54	32.312467	-103.768762
6,800.00	3.60	213.06	6,791.99	-211.49 -216.75	-141.09	477,861.93	715,749.69	32.312453	-103.768773
6,900.00	3.60	213.06	6,891.80	-210.73	-141.09	477,856.67	715,749.09	32.312438	-103.768784
7,000.00	3.60	213.06	6,991.60	-227.27	-144.51	477,851.41	715,740.27	32.312424	-103.768795
7,100.00	3.60	213.06	7,091.40	-232.54	-147.93	477,846.15	715,739.42	32.312409	-103.768806
7,100.00	3.60	213.06	7,091.40	-237.80	-154.78	477,840.89	715,735.99	32.312395	-103.768818
7,300.00	3.60	213.06	7,191.20	-243.06	-154.70	477,835.62	715,732.57	32.312381	-103.768829
7,400.00	3.60	213.06	7,390.81	-248.32	-161.63	477,830.36	715,729.14	32.312366	-103.768840
7,500.00	3.60	213.06	7,490.61	-253.58	-165.06	477,825.10	715,725.72	32.312352	-103.768851
7,600.00	3.60	213.06	7,590.42	-258.84	-168.48	477,819.84	715,722.30	32.312337	-103.768862
7,700.00	3.60	213.06	7,690.22	-264.10	-171.91	477,814.58	715,718.87	32.312323	-103.768874
7,787.18	3.60	213.06	7,777.23	-268.69	-174.89	477,809.99	715,715.89	32.312310	-103.768883
7,800.00	3.41	213.06	7,790.02	-269.34	-175.32	477,809.34	715,715.46	32.312309	-103.768885
7,900.00	1.91	213.06	7,889.91	-273.23	-177.85	477,805.45	715,712.93	32.312298	-103.768893
8,000.00	0.41	213.06	7,989.89	-274.92	-178.95	477,803.76	715,711.83	32.312293	-103.768897
8,027.11	0.00	0.00	8,017.00	-275.00	-179.00	477,803.68	715,711.78	32.312293	-103.768897
8,100.00	0.00	0.00	8,089.89	-275.00	-179.00	477,803.68	715,711.78	32.312293	-103.768897
8,200.00	0.00	0.00	8,189.89	-275.00	-179.00	477,803.68	715,711.78	32.312293	-103.768897
8,300.00	0.00	0.00	8,289.89	-275.00	-179.00	477,803.68	715,711.78	32.312293	-103.768897
8,377.15	0.00	0.00	8,367.04	-275.00	-179.00	477,803.68	715,711.78	32.312293	-103.768897
KOP & F	TP @ 8377' M	D, 200' FSL,	1650' FWL						
8,400.00	2.28	359.66	8,389.88	-274.54	-179.00	477,804.14	715,711.77	32.312294	-103.768897
8,500.00	12.28	359.66	8,488.95	-261.88	-179.08	477,816.80	715,711.70	32.312329	-103.768897
8,600.00	22.28	359.66	8,584.31	-232.21	-179.25	477,846.47	715,711.52	32.312411	-103.768897
8,700.00	32.28	359.66	8,673.07	-186.42	-179.53	477,892.26	715,711.25	32.312537	-103.768897
8,800.00	42.28	359.66	8,752.54	-125.92	-179.89	477,952.76	715,710.89	32.312703	-103.768897
8,900.00	52.28	359.66	8,820.29	-52.55	-180.32	478,026.14	715,710.45	32.312905	-103.768897
9,000.00	62.28	359.66	8,874.26	31.48	-180.82	478,110.16	715,709.95	32.313136	-103.768897
9,100.00	72.28	359.66	8,912.83	123.61	-181.37	478,202.29	715,709.41	32.313389	-103.768898
9,200.00	82.28	359.66	8,934.81	221.03	-181.95	478,299.71	715,708.83	32.313657	-103.768898
9,277.15	90.00	359.66	8,940.00	297.95	-182.41	478,376.63	715,708.37	32.313868	-103.768898
9,300.00	90.00	359.66	8,940.00	320.80	-182.54	478,399.48	715,708.23	32.313931	-103.768898
9,400.00	90.00	359.66	8,940.00	420.79	-183.14	478,499.47	715,707.64	32.314206	-103.768898
9,500.00	90.00	359.66	8,940.00	520.79	-183.73	478,599.47	715,707.04	32.314481	-103.768898
9,600.00	90.00	359.66	8,940.00	620.79	-184.33	478,699.47	715,706.45	32.314755	-103.768899
9,700.00	90.00	359.66	8,940.00	720.79	-184.92	478,799.47	715,705.86	32.315030	-103.768899
9,800.00	90.00	359.66	8,940.00	820.79	-185.52	478,899.47	715,705.26	32.315305	-103.768899
9,900.00	90.00	359.66	8,940.00	920.78	-186.11	478,999.46	715,704.67	32.315580	-103.768899
10,000.00	90.00	359.66	8,940.00	1,020.78	-186.70	479,099.46	715,704.07	32.315855	-103.768900
10,100.00	90.00	359.66	8,940.00	1,120.78	-187.30	479,199.46	715,703.48	32.316130	-103.768900
10,200.00	90.00	359.66	8,940.00	1,220.78	-187.89	479,299.46	715,702.88	32.316405	-103.768900

Database: EDM r5000.141\_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

**Site**: Sec 10-T23S-R31E

Well: Aleutian 10-3 Fed Com 522H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Aleutian 10-3 Fed Com 522H

RKB @ 3413.60ft RKB @ 3413.60ft

Grid

Measured   Depth   Inclination   Azimuth   Depth   4H/-S   PE/W   Northing   Easting   Easting   Easting   Conf.	Planned Survey									
10,500,00   90,00   359,66   8,400,00   1,20,77   199,26   715,701,90   32,316954   -10,708,789901   10,800,00   90,00   359,66   8,400,00   1,20,77   190,87   479,894,54   715,700,56   32,31779   103,789901   10,800,00   90,00   359,66   8,400,00   1,20,77   191,46   479,899,45   715,699,41   32,316954   103,7789,10   10,800,00   90,00   359,66   8,400,00   1,20,77   191,46   479,899,45   715,699,41   32,316954   103,789901   10,900,00   90,00   359,66   8,400,00   1,20,77   191,46   479,899,44   715,698,17   32,316954   103,789901   11,000,00   90,00   359,66   8,400,00   2,120,76   193,25   480,099,44   715,698,17   32,316954   103,789901   11,000,00   90,00   359,66   8,400,00   2,20,76   193,25   480,099,44   715,698,17   32,319753   103,789902   11,200,00   90,00   359,66   8,400,00   2,20,76   193,32   480,299,44   715,698,13   32,316964   103,789902   11,200,00   90,00   359,66   8,400,00   2,20,76   193,34   480,299,44   715,698,13   32,319428   103,789902   11,200,00   90,00   359,66   8,400,00   2,20,76   195,03   480,499,43   715,698,14   32,319153   103,789903   11,200,00   90,00   359,66   8,400,00   2,20,76   195,03   480,499,43   715,698,14   32,319153   103,789903   11,200,00   90,00   359,66   8,400,00   2,20,76   195,03   480,499,43   715,698,14   32,319153   103,789903   11,200,00   90,00   359,66   8,400,00   2,20,76   195,03   480,499,43   715,698,14   37,1899,14   715,698,14   37,1899,14   715,698,14	Depth			Depth			Northing	Easting	Latitude	Longitude
10,500 00   90 0   359 66   8,440 00   1,500 77   1,698 68   447,699 45   715,700 50   32,317264   -103,768901   10,700 00   90 0   359 66   8,440 00   1,700 77   -190 27   479,799 45   715,699 31   32,317794   -103,768901   10,900 00   90 0   359 66   8,440 00   1,800 77   -191,46   479,799 45   715,699 31   32,318054   -103,768901   10,900 00   90 0   359 66   8,440 00   1,800 77   -192,65   40,999,44   715,689 31   32,318294   -103,768901   11,000 00   90 0   359 66   8,440 00   2,020 77   -192,65   40,999,44   715,689 73   32,318294   -103,768902   11,200 00   90 0   359 66   8,440 00   2,200 76   -193,25   40,199,44   715,689 73   32,318294   -103,768902   11,200 00   90 0   359 66   8,440 00   2,200 76   -193,44   40,199,44   715,689 73   32,318294   -103,768902   11,200 00   90 0   359 66   8,440 00   2,200 76   -193,44   40,199,44   715,689 74   32,319428   -103,768903   11,400 00   90 0   359 66   8,440 00   2,200 76   -194,43   40,199,44   715,689 74   32,319428   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 76   -195,502   40,999,44   715,689 75   32,319978   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 76   -195,502   40,999,44   715,689 75   32,319978   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 76   -196,22   40,999,43   715,689 75   32,319978   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 75   -196,22   40,999,43   715,689 145   32,319978   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 75   -196,22   40,999,43   715,689 145   32,319978   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 75   -196,22   40,999,43   715,689 145   32,319078   -103,768903   11,500 00   90 0   359 66   8,440 00   2,200 75   -198,00   40,999,43   715,689 13   32,32003   -103,768903   11,500 00   90 0   359 66   8,440 00   3,200 75   -198,00   40,999,43   715,689 13   32,32003   -103,768903   11,500 00   90 0   359 66   8,440 00   3,200 75   -198,00   40,999,43   715,689 13   32,32003   -103,768903   11,500 00   90 0   359 66   8,440 00   3	10,300.00	90.00	359.66	8,940.00	1,320.78	-188.49	479,399.46	715,702.29	32.316680	-103.768900
10,000 00 00 00 00 00 00 00 00 00 00 00 0	10,400.00	90.00	359.66	8,940.00	1,420.78	-189.08	479,499.45	715,701.69	32.316954	-103.768900
10,700,00   90,00   359,66   8,940,00   1,20,77   190,87   479,799.45   715,599.91   32,31779   103,768901   10,800,00   90,00   359,66   8,940,00   1,20,77   191,46   40,999.44   715,589.72   32,31839   103,768902   11,000,00   90,00   359,66   8,940,00   2,20,75   132,55   400,199.44   715,589.75   32,31839   103,768902   11,200,00   90,00   359,66   8,940,00   2,20,76   133,35   400,199.44   715,589.75   32,318153   103,768902   13,000,00   90,00   359,66   8,940,00   2,20,76   138,36   400,399.44   715,589.75   32,318153   103,768902   13,000,00   90,00   359,66   8,940,00   2,20,76   136,36   400,994.44   715,589.75   32,318153   103,768903   13,000,00   90,00   359,66   8,940,00   2,20,76   136,36   400,994.44   715,589.75   32,319153   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,52   400,994.44   715,589.75   32,319173   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,52   400,994.44   715,589.75   32,319173   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,52   400,994.44   715,589.75   32,319173   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,52   400,994.44   715,589.75   32,319173   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,52   400,994.44   715,589.75   32,31978   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,62   400,994.44   715,689.15   32,31978   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,62   400,994.44   715,689.15   32,31978   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,62   400,994.44   715,689.15   32,320,923   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,62   400,994.44   715,689.15   32,320,923   103,768903   11,000,00   90,00   359,66   8,940,00   2,20,76   136,76   400,994.44   715,689.57   32,320,923   103,768903   11,000,00   90,00   359,66   8,940,00   3,20,74   400,994.44   715,689.57   32,320,923   400,994.44   715,689.57   32,320,923   400,994.44   715,689.57   400,994.44   715,689.57	10,500.00		359.66	8,940.00	1,520.77	-189.68	479,599.45	715,701.10	32.317229	-103.768901
10,800 00   0,000   39,666   8,940 00   1,220 77   191 46   478,899.45   715,898.71   32,31804   1-103,768901   10,900 00   0,900   396.66   8,940 00   2,200 77   192,65   480,099.44   715,888.13   32,318604   1-103,768902   11,100 00   0,000   396.66   8,940 00   2,200 76   1-193,25   480,099.44   715,898.13   32,318604   1-103,768902   11,200 00   0,000   396.66   8,940 00   2,200 76   1-193,25   480,099.44   715,898.13   32,31813   1-103,768902   11,200 00   0,000   396.66   8,940 00   2,200 76   1-194,43   480,299.44   715,898.13   32,31913   1-103,768902   11,500 00   0,000   396.66   8,940 00   2,200 76   1-194,43   480,299.44   715,898.13   32,31913   1-103,768903   11,500 00   0,000   396.66   8,940 00   2,200 76   1-195.62   480,899.43   715,898.15   32,319173   1-103,768903   11,500 00   0,000   396.66   8,940 00   2,200 76   1-196.22   480,899.43   715,898.15   32,3219173   1-103,768903   11,500 00   0,000   396.66   8,940 00   2,720 76   1-196.21   480,899.43   715,898.15   32,32033   1-103,768903   11,500 00   0,000   396.66   8,940 00   2,720 76   1-196.21   480,899.43   715,898.15   32,32033   1-103,768903   11,900 00   0,000   396.66   8,940 00   2,200 76   1-196.14   480,899.43   715,898.15   32,32033   1-103,768903   11,900 00   0,000   359.66   8,940 00   2,200 76   1-196.00   480,999.43   715,898.15   32,321033   1-103,768903   11,900 00   0,000   359.66   8,940 00   2,200 76   1-196.00   481,999.42   715,899.17   32,320033   1-103,768904   12,100 00   0,000   359.66   8,940 00   3,200 76   1-196.00   481,199.42   715,899.15   32,321032   1-103,768904   12,200 00   0,000   359.66   8,940 00   3,120.76   1-199.19   481,199.42   715,899.19   32,32102   1-103,768904   12,200 00   0,000   359.66   8,940 00   3,200.74   1-199.79   481,199.42   715,899.19   32,32102   1-103,768904   12,200 00   0,000   359.66   8,940 00   3,200.74   200.16   481,199.42   715,899.19   32,322177   1-103,768905   12,500 00   0,000   359.66   8,940 00   3,200.74   200.16   481,199.42   715,899.19   32,322170   1-103	10,600.00	90.00	359.66	8,940.00	1,620.77	-190.27	479,699.45	715,700.50	32.317504	-103.768901
11,00,00 90,00 359,66 8,940,00 1,920,77 192,66 479,999,44 715,696,72 22,318329 1-103,768902 11,100,00 90,00 359,66 8,940,00 22,2076 193,25 480,199,44 715,696,34 32,318679 1-103,768902 11,200,00 90,00 359,66 8,940,00 22,2076 193,35 480,199,44 715,696,34 32,319428 1-103,768902 11,300,00 90,00 359,66 8,940,00 22,2076 195,34 480,299,44 715,696,34 32,319428 1-103,768902 11,400,00 90,00 359,66 8,940,00 22,2076 195,62 480,599,43 715,695,53 32,318428 1-103,768902 11,500,00 90,00 359,66 8,940,00 22,2076 195,62 480,599,43 715,695,55 32,319078 1-103,768903 11,500,00 90,00 359,66 8,940,00 22,2076 196,62 480,599,43 715,695,55 32,319078 1-103,768903 11,500,00 90,00 359,66 8,940,00 22,2076 196,82 480,599,43 715,695,55 32,319078 1-103,768903 11,500,00 90,00 359,66 8,940,00 22,2076 196,82 480,599,43 715,693,66 32,3202528 1-103,768903 11,500,00 90,00 359,66 8,940,00 22,2076 196,82 480,599,43 715,693,66 32,3202528 1-103,768903 11,500,00 90,00 359,66 8,940,00 22,2076 196,82	10,700.00	90.00	359.66	8,940.00	1,720.77	-190.87	479,799.45	715,699.91	32.317779	-103.768901
11,100,00 90,00 359,66 8,940,00 2,120,77 -192,65 480,090,44 715,696,13 32,318604 1-103,768902 11,200,00 90,00 359,66 8,940,00 2,120,76 -139,36 480,190,44 715,696,64 32,319153 1-103,768902 11,300,00 90,00 359,66 8,940,00 2,20,76 -159,43 480,399,44 715,696,76 32,319703 1-103,768903 11,500,00 90,00 359,66 8,940,00 2,20,76 -159,63 480,499,43 715,695,75 32,319703 1-103,768903 11,500,00 90,00 359,66 8,940,00 2,20,76 1-105,63 480,499,43 715,695,75 32,319703 1-103,768903 11,500,00 90,00 359,66 8,940,00 2,20,76 1-105,63 480,499,43 715,695,76 32,319703 1-103,768903 11,500,00 90,00 359,66 8,940,00 2,20,76 1-105,62 480,590,43 715,695,76 32,319703 1-103,768903 11,500,00 90,00 359,66 8,940,00 2,20,75 1-106,22 480,590,43 715,693,64 68 32,20,203 1-103,768903 11,500,00 90,00 359,66 8,940,00 2,20,75 1-197,41 400,899,42 715,693,37 32,320803 1-103,768903 11,500,00 90,00 359,66 8,940,00 3,20,75 1-198,60 481,099,42 715,693,37 32,320803 1-103,768904 12,000,00 90,00 359,66 8,940,00 3,20,75 1-198,60 481,099,42 715,693,40 32,321532 1-103,768904 12,000,00 90,00 359,66 8,940,00 3,20,77 1-198,79 481,199,42 715,691,58 32,321607 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 1-198,79 481,199,42 715,698,140 32,321607 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 1-198,79 481,199,47 175,688,14 32,321607 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 1-20,93,8 481,399,42 715,689,14 32,322177 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 1-20,93,8 481,399,42 715,688,14 32,322177 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 3-20,35,44 481,699,47 715,688,14 32,322177 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 3-20,35,44 481,699,47 715,688,14 32,322177 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 3-20,35,44 481,699,47 715,688,14 32,32456 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 3-20,35,44 481,699,47 715,688,14 32,32456 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 3-20,35,44 481,699,47 715,688,14 32,322477 1-103,768905 12,500,00 90,00 359,66 8,940,00 3,20,77 3-20,35,44 481,699,4	10,800.00	90.00		8,940.00	1,820.77			715,699.31	32.318054	-103.768901
11,00 00 90,00 359,66 8,940,00 2,220 76 -133,25 480,199.44 715,669.53 32,318679 -103,768902 11,300 00 90,00 359,66 8,940,00 2,220 76 -105,63 480,299.47 715,669.54 32,319428 -103,768903 11,500 00 90,00 359,66 8,940,00 2,220 76 -105,62 480,599.43 715,695.55 32,31978 -103,768903 11,500 00 90,00 359,66 8,940,00 2,220 76 -105,62 480,599.43 715,695.55 32,31978 -103,768903 11,500 00 90,00 359,66 8,940,00 2,220 76 -105,62 480,599.43 715,695.55 32,321073 31,3768903 11,500 00 90,00 359,66 8,940,00 2,220 75 -196,62 480,599.43 715,695.37 32,321078 103,768903 11,500 00 90,00 359,66 8,940,00 2,220 75 -196,62 480,599.43 715,695.37 32,321078 103,768903 11,500 00 90,00 359,66 8,940,00 2,220 75 -196,60 480,999.42 715,692.18 32,321562 103,768904 12,000 00 90,00 359,66 8,940,00 3,200 75 -199,79 481,199.42 715,692.18 32,321562 103,768904 12,200 00 90,00 359,66 8,940,00 3,200 75 -199,79 481,199.42 715,690.99 32,321902 103,768904 12,300 00 90,00 359,66 8,940,00 3,220 75 -199,79 481,199.42 715,690.99 32,321902 103,768904 12,300 00 90,00 359,66 8,940,00 3,220 75 -199,79 481,199.42 715,690.99 32,321902 103,768904 12,300 00 90,00 359,66 8,940,00 3,220 75 -199,79 481,199.42 715,690.99 32,321902 103,768905 12,400 00 90,00 359,66 8,940,00 3,220 74 -200,38 481,199.44 715,689.80 32,322177 103,768904 12,500 00 90,00 359,66 8,940,00 3,200 75 -199,79 481,199.42 715,690.99 32,321902 103,768905 12,500 00 90,00 359,66 8,940,00 3,200 75 -199,79 481,199.42 715,690.99 32,321902 103,768905 12,500 00 90,00 359,66 8,940,00 3,200 75 -200,38 481,199.44 715,689.80 32,322177 103,768905 12,500 00 90,00 359,66 8,940,00 3,200 75 -200,38 481,199.44 715,689.80 32,322177 103,768905 12,500 00 90,00 359,66 8,940,00 3,200 75 -200,38 481,199.44 715,689.80 32,322177 103,768905 12,500 00 90,00 359,66 8,940,00 3,200 75 -200,38 481,199.44 715,689.80 32,322177 103,768905 12,500 00 90,00 359,66 8,940,00 42,000 72,00	1						,			
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12,300.00   90.00   359.66   8,940.00   3,320.74   -200.38   481.399.42   715,680.00   32.322172   -103.768905   12,500.00   90.00   359.66   8,940.00   3,520.74   -201.57   481,599.41   715,688.21   32.322727   -103.768905   12,500.00   90.00   359.66   8,940.00   3,520.74   -201.67   481,699.41   715,688.61   32.323002   -103.768905   12,700.00   90.00   359.66   8,940.00   3,720.74   -202.76   481,699.41   715,688.61   32.323002   -103.768905   12,700.00   90.00   359.66   8,940.00   3,720.74   -202.76   481,899.41   715,687.42   32.323277   -103.768906   12,900.00   90.00   359.66   8,940.00   3,220.73   -203.35   481,899.41   715,686.83   32.323826   -103.768906   13,000.00   90.00   359.66   8,940.00   4,020.73   -204.54   482,099.40   715,686.83   32.3234101   -103.768906   13,100.00   90.00   359.66   8,940.00   4,220.73   -205.73   482,299.40   715,686.64   32.324376   -103.768906   13,200.00   90.00   359.66   8,940.00   4,220.73   -205.73   482,299.40   715,686.64   32.324376   -103.768906   13,200.00   90.00   359.66   8,940.00   4,220.73   -205.73   482,299.40   715,686.64   32.324651   -103.768907   13,500.00   90.00   359.66   8,940.00   4,220.73   -206.92   482,499.39   715,681.45   32.324266   -103.768907   13,500.00   90.00   359.66   8,940.00   4,220.72   -206.92   482,499.39   715,682.67   32.325201   -103.768907   13,500.00   90.00   359.66   8,940.00   4,620.72   -208.21   482,799.39   715,682.67   32.325750   -103.768907   13,760.00   90.00   359.66   8,940.00   4,620.72   -208.21   482,799.39   715,681.56   32.325476   -103.768908   13,780.00   90.00   359.66   8,940.00   4,620.72   -208.21   482,899.39   715,681.56   32.325201   -103.768908   13,780.00   90.00   359.66   8,940.00   4,220.73   -208.21   482,899.39   715,681.56   32.325626   -103.768908   13,780.00   90.00   359.66   8,940.00   4,220.73   -208.21   482,899.39   715,681.56   32.325675   -103.768908   13,900.00   90.00   359.66   8,940.00   5,220.71   -211.88   483,993.88   715,671.69   32.327700   -103.7689908   14,000.0	1									
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13,700.00 90.00 359.66 8,940.00 4,720.72 -208.71 482,799.39 715,682.07 32.326025 -103.768908 13,786.00 90.00 359.66 8,940.00 4,806.72 -209.22 482,885.39 715,681.56 32.326262 -103.768908    **Cross section @ 13786' MD, 0' FSL, 1650' FWL**  13,800.00 90.00 359.66 8,940.00 4,820.72 -209.30 482,899.39 715,681.48 32.326300 -103.768908   13,900.00 90.00 359.66 8,940.00 4,920.71 -209.89 482,999.38 715,680.88 32.326575 -103.768908   14,000.00 90.00 359.66 8,940.00 5,020.71 -210.49 483,099.38 715,680.89 32.326850 -103.768908   14,100.00 90.00 359.66 8,940.00 5,120.71 -211.08 483,199.38 715,679.69 32.327125 -103.768908   14,200.00 90.00 359.66 8,940.00 5,220.71 -211.68 483,299.38 715,679.69 32.327400 -103.768909   14,300.00 90.00 359.66 8,940.00 5,220.71 -212.27 483,399.38 715,679.10 32.327400 -103.768909   14,400.00 90.00 359.66 8,940.00 5,320.71 -212.27 483,399.38 715,679.10 32.327675 -103.768909   14,400.00 90.00 359.66 8,940.00 5,520.70 -213.46 483,599.37 715,677.31 32.328224 -103.768909   14,500.00 90.00 359.66 8,940.00 5,620.70 -214.66 483,699.37 715,677.31 32.328224 -103.768910   14,700.00 90.00 359.66 8,940.00 5,520.70 -214.65 483,799.37 715,676.12 32.328499 -103.768910   14,800.00 90.00 359.66 8,940.00 5,620.70 -214.65 483,799.37 715,676.13 32.328774 -103.768910   14,900.00 90.00 359.66 8,940.00 5,920.70 -214.65 483,799.37 715,676.13 32.328774 -103.768910   14,900.00 90.00 359.66 8,940.00 5,920.70 -214.65 483,799.37 715,676.13 32.328774 -103.768910   14,900.00 90.00 359.66 8,940.00 5,920.70 -215.84 483,999.37 715,675.53 32.329049 -103.768910   14,900.00 90.00 359.66 8,940.00 5,920.70 -215.84 483,999.37 715,674.34 32.329324 -103.768910   15,000.00 90.00 359.66 8,940.00 6,020.69 -217.62 484,199.36 715,673.15 32.330423 -103.768911   15,000.00 90.00 359.66 8,940.00 6,020.69 -217.62 484,199.36 715,673.15 32.330423 -103.768911   15,000.00 90.00 359.66 8,940.00 6,020.69 -217.62 484,199.36 715,672.56 32.330423 -103.768911   15,000.00 90.00 359.66 8,940.00 6,220.69 -217.62 484,199.36 715,672.56 32.330423 -103.768911	1									
13,786.00       90.00       359.66       8,940.00       4,806.72       -209.22       482,885.39       715,681.56       32.326262       -103.768908         Cross section @ 13786' MD, 0' FSL, 1650' FWL         13,800.00       90.00       359.66       8,940.00       4,820.72       -209.30       482,899.39       715,681.48       32.326300       -103.768908         13,900.00       90.00       359.66       8,940.00       5,020.71       -209.89       482,999.38       715,680.88       32.326575       -103.768908         14,100.00       90.00       359.66       8,940.00       5,120.71       -211.08       483,199.38       715,679.69       32.327125       -103.768908         14,200.00       90.00       359.66       8,940.00       5,220.71       -211.08       483,299.38       715,679.69       32.327400       -103.768909         14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,678.50       32.327675       -103.768909         14,500.00       90.00       359.66       8,940.00       5,420.71       -212.27       483,499.38       715,677.31       32.327675       -103.768909         14,600.00       90.00       359.66       8,940.00 </td <td></td>										
Cross section @ 13786' MD, 0' FSL, 1650' FWL           13,800.00         90.00         359.66         8,940.00         4,820.72         -209.30         482,899.39         715,681.48         32.326300         -103.768908           13,900.00         90.00         359.66         8,940.00         4,920.71         -209.89         482,999.38         715,680.88         32.326575         -103.768908           14,000.00         90.00         359.66         8,940.00         5,020.71         -210.49         483,099.38         715,679.69         32.327125         -103.768908           14,100.00         90.00         359.66         8,940.00         5,220.71         -211.08         483,199.38         715,679.69         32.327125         -103.768909           14,200.00         90.00         359.66         8,940.00         5,220.71         -211.68         483,299.38         715,679.69         32.327400         -103.768909           14,300.00         90.00         359.66         8,940.00         5,320.71         -212.27         483,399.38         715,678.50         32.327400         -103.768909           14,500.00         90.00         359.66         8,940.00         5,420.71         -212.87         483,499.38         715,677.31         32.327950         -103	1									
13,800.00       90.00       359.66       8,940.00       4,820.72       -209.30       482,899.39       715,681.48       32.326300       -103.768908         13,900.00       90.00       359.66       8,940.00       4,920.71       -209.89       482,999.38       715,680.88       32.326575       -103.768908         14,000.00       90.00       359.66       8,940.00       5,020.71       -210.49       483,099.38       715,679.69       32.327125       -103.768908         14,100.00       90.00       359.66       8,940.00       5,120.71       -211.08       483,199.38       715,679.69       32.327125       -103.768909         14,200.00       90.00       359.66       8,940.00       5,220.71       -211.68       483,299.38       715,679.69       32.327675       -103.768909         14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,679.60       32.327675       -103.768909         14,500.00       90.00       359.66       8,940.00       5,420.71       -212.87       483,499.38       715,677.91       32.327675       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31					4,000.72	-209.22	402,000.09	7 13,001.30	32.320202	-103.700900
13,900.00       90.00       359.66       8,940.00       4,920.71       -209.89       482,999.38       715,680.88       32.326575       -103.768908         14,000.00       90.00       359.66       8,940.00       5,020.71       -210.49       483,099.38       715,680.29       32.326850       -103.768908         14,100.00       90.00       359.66       8,940.00       5,120.71       -211.08       483,199.38       715,679.69       32.327400       -103.768909         14,200.00       90.00       359.66       8,940.00       5,220.71       -211.68       483,299.38       715,679.10       32.327400       -103.768909         14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,678.50       32.327675       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.71       -212.87       483,499.38       715,677.91       32.327950       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328244       -103.768909         14,700.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72		_	•	-	4 920 72	200.20	100 000 00	715 601 10	22 226200	102 760000
14,000.00       90.00       359.66       8,940.00       5,020.71       -210.49       483,099.38       715,680.29       32.326850       -103.768908         14,100.00       90.00       359.66       8,940.00       5,120.71       -211.08       483,199.38       715,679.69       32.327125       -103.768909         14,200.00       90.00       359.66       8,940.00       5,220.71       -211.68       483,299.38       715,679.10       32.327400       -103.768909         14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,679.10       32.327675       -103.768909         14,400.00       90.00       359.66       8,940.00       5,420.71       -212.87       483,499.38       715,677.91       32.327950       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328224       -103.768909         14,700.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53	1				,					
14,100.00       90.00       359.66       8,940.00       5,120.71       -211.08       483,199.38       715,679.69       32.327125       -103.768909         14,200.00       90.00       359.66       8,940.00       5,220.71       -211.68       483,299.38       715,679.10       32.327400       -103.768909         14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,678.50       32.327675       -103.768909         14,400.00       90.00       359.66       8,940.00       5,420.71       -212.87       483,499.38       715,677.91       32.327950       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328224       -103.768909         14,600.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -214.65       483,799.37       715,676.13       32.329049       -103.768910         14,900.00       90.00       359.66       8,940.00       5,920.70       -215.25       483,899.37       715,674.94	1 '						- ,	,		
14,200.00       90.00       359.66       8,940.00       5,220.71       -211.68       483,299.38       715,679.10       32.327400       -103.768909         14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,678.50       32.327675       -103.768909         14,400.00       90.00       359.66       8,940.00       5,420.71       -212.87       483,499.38       715,677.91       32.327950       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328224       -103.768909         14,600.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,700.00       90.00       359.66       8,940.00       5,720.70       -214.65       483,799.37       715,676.13       32.328774       -103.768910         14,900.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         15,000.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94										
14,300.00       90.00       359.66       8,940.00       5,320.71       -212.27       483,399.38       715,678.50       32.327675       -103.768909         14,400.00       90.00       359.66       8,940.00       5,420.71       -212.87       483,499.38       715,677.91       32.327950       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328224       -103.768909         14,600.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,700.00       90.00       359.66       8,940.00       5,720.70       -214.65       483,799.37       715,676.13       32.328774       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         14,900.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768911         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34	1									
14,400.00       90.00       359.66       8,940.00       5,420.71       -212.87       483,499.38       715,677.91       32.327950       -103.768909         14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328224       -103.768909         14,600.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,700.00       90.00       359.66       8,940.00       5,720.70       -214.65       483,799.37       715,676.13       32.328774       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         14,900.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768910         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.03       484,199.36       715,673.15	1									
14,500.00       90.00       359.66       8,940.00       5,520.70       -213.46       483,599.37       715,677.31       32.328224       -103.768909         14,600.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,700.00       90.00       359.66       8,940.00       5,720.70       -214.65       483,799.37       715,676.13       32.328774       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         15,000.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768910         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.03       484,199.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15	· ·									
14,600.00       90.00       359.66       8,940.00       5,620.70       -214.06       483,699.37       715,676.72       32.328499       -103.768910         14,700.00       90.00       359.66       8,940.00       5,720.70       -214.65       483,799.37       715,676.13       32.328774       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         14,900.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768910         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,100.00       90.00       359.66       8,940.00       6,120.69       -217.03       484,199.36       715,673.75       32.329874       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,320.69       -218.22       484,399.36       715,672.56							,			
14,700.00       90.00       359.66       8,940.00       5,720.70       -214.65       483,799.37       715,676.13       32.328774       -103.768910         14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         14,900.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768910         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,200.00       90.00       359.66       8,940.00       6,120.69       -217.03       484,199.36       715,673.75       32.329874       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,320.69       -218.22       484,399.36       715,672.56       32.330423       -103.768911	· ·									
14,800.00       90.00       359.66       8,940.00       5,820.70       -215.25       483,899.37       715,675.53       32.329049       -103.768910         14,900.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768910         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,100.00       90.00       359.66       8,940.00       6,120.69       -217.03       484,199.36       715,673.75       32.329874       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,320.69       -218.22       484,399.36       715,672.56       32.330423       -103.768911	1				,					
14,900.00       90.00       359.66       8,940.00       5,920.70       -215.84       483,999.37       715,674.94       32.329324       -103.768910         15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,100.00       90.00       359.66       8,940.00       6,120.69       -217.03       484,199.36       715,673.75       32.329874       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,320.69       -218.22       484,399.36       715,672.56       32.330423       -103.768911	1									
15,000.00       90.00       359.66       8,940.00       6,020.69       -216.44       484,099.36       715,674.34       32.329599       -103.768911         15,100.00       90.00       359.66       8,940.00       6,120.69       -217.03       484,199.36       715,673.75       32.329874       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,320.69       -218.22       484,399.36       715,672.56       32.330423       -103.768911	· · · · · · · · · · · · · · · · · · ·									
15,100.00       90.00       359.66       8,940.00       6,120.69       -217.03       484,199.36       715,673.75       32.329874       -103.768911         15,200.00       90.00       359.66       8,940.00       6,220.69       -217.62       484,299.36       715,673.15       32.330149       -103.768911         15,300.00       90.00       359.66       8,940.00       6,320.69       -218.22       484,399.36       715,672.56       32.330423       -103.768911	· ·				*					
15,200.00     90.00     359.66     8,940.00     6,220.69     -217.62     484,299.36     715,673.15     32.330149     -103.768911       15,300.00     90.00     359.66     8,940.00     6,320.69     -218.22     484,399.36     715,672.56     32.330423     -103.768911	· ·									
15,300.00 90.00 359.66 8,940.00 6,320.69 -218.22 484,399.36 715,672.56 32.330423 -103.768911	1									
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							,		
: 10.400.00 90.00 509.00 0.940.00 0.420.09 -Z10.01 484.499.50 /T5.671.96 57.530698 -T0.37689T1	15,400.00	90.00	359.66	8,940.00	6,420.69	-218.81	484,499.36	715,671.96	32.330698	-103.768911

Database: EDM r5000.141\_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 10-T23S-R31E

Well: Aleutian 10-3 Fed Com 522H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Aleutian 10-3 Fed Com 522H

RKB @ 3413.60ft RKB @ 3413.60ft

Grid

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,500.00	90.00	359.66	8,940.00	6,520.69	-219.41	484,599.35	715,671.37	32.330973	-103.7689
15,600.00	90.00	359.66	8,940.00	6,620.68	-220.00	484,699.35	715,670.77	32.331248	-103.7689
15,700.00	90.00	359.66	8,940.00	6,720.68	-220.60	484,799.35	715,670.18	32.331523	-103.7689
15,800.00	90.00	359.66	8,940.00	6,820.68	-221.19	484,899.35	715,669.58	32.331798	-103.7689
15,900.00	90.00	359.66	8,940.00	6,920.68	-221.79	484,999.35	715,668.99	32.332073	-103.7689
16,000.00	90.00	359.66	8,940.00	7,020.68	-222.38	485,099.34	715,668.40	32.332348	-103.7689
16,100.00	90.00	359.66	8,940.00	7,120.68	-222.98	485,199.34	715,667.80	32.332622	-103.7689
16,200.00	90.00	359.66	8,940.00	7,220.67	-223.57	485,299.34	715,667.21	32.332897	-103.7689
16,300.00	90.00	359.66	8,940.00	7,320.67	-224.17	485,399.34	715,666.61	32.333172	-103.7689
16,400.00	90.00	359.66	8,940.00	7,420.67	-224.76	485,499.34	715,666.02	32.333447	-103.768
16,500.00	90.00	359.66	8,940.00	7,520.67	-225.35	485,599.33	715,665.42	32.333722	-103.768
16,600.00	90.00	359.66	8,940.00	7,620.67	-225.95	485,699.33	715,664.83	32.333997	-103.768
16,700.00	90.00	359.66	8,940.00	7,720.66	-226.54	485,799.33	715,664.23	32.334272	-103.768
16,800.00	90.00	359.66	8,940.00	7,820.66	-227.14	485,899.33	715,663.64	32.334547	-103.768
16,900.00	90.00	359.66	8,940.00	7,920.66	-227.73	485,999.33	715,663.04	32.334821	-103.768
17,000.00	90.00	359.66	8,940.00	8,020.66	-228.33	486,099.32	715,662.45	32.335096	-103.768
17,100.00	90.00	359.66	8,940.00	8,120.66	-228.92	486,199.32	715,661.85	32.335371	-103.768
17,200.00	90.00	359.66	8,940.00	8,220.66	-229.52	486,299.32	715,661.26	32.335646	-103.768
17,300.00	90.00	359.66	8,940.00	8,320.65	-230.11	486,399.32	715,660.67	32.335921	-103.768
17,400.00	90.00	359.66	8,940.00	8,420.65	-230.71	486,499.32	715,660.07	32.336196	-103.768
17,500.00	90.00	359.66	8,940.00	8,520.65	-231.30	486,599.31	715,659.48	32.336471	-103.768
17,600.00	90.00	359.66	8,940.00	8,620.65	-231.89	486,699.31	715,658.88	32.336746	-103.768
17,700.00	90.00	359.66	8,940.00	8,720.65	-232.49	486,799.31	715,658.29	32.337020	-103.768
17,800.00	90.00	359.66	8,940.00	8,820.65	-233.08	486,899.31	715,657.69	32.337295	-103.768
17,900.00	90.00	359.66	8,940.00	8,920.64	-233.68	486,999.31	715,657.10	32.337570	-103.768
18,000.00	90.00	359.66	8,940.00	9,020.64	-234.27	487,099.30	715,656.50	32.337845	-103.768
18,100.00	90.00	359.66	8,940.00	9,120.64	-234.87	487,199.30	715,655.91	32.338120	-103.768
18,200.00	90.00	359.66	8,940.00	9,220.64	-235.46	487,299.30	715,655.31	32.338395	-103.768
18,300.00	90.00	359.66	8,940.00	9,320.64	-236.06	487,399.30	715,654.72	32.338670	-103.768
18,400.00	90.00	359.66	8,940.00	9,420.63	-236.65	487,499.30	715,654.12	32.338945	-103.768
18,500.00	90.00	359.66	8,940.00	9,520.63	-237.25	487,599.29	715,653.53	32.339219	-103.768
18,600.00	90.00	359.66	8,940.00	9,620.63	-237.84	487,699.29	715,652.94	32.339494	-103.768
18,700.00	90.00	359.66	8,940.00	9,720.63	-238.44	487,799.29	715,652.34	32.339769	-103.768
18,800.00	90.00	359.66	8,940.00	9,820.63	-239.03	487,899.29	715,651.75	32.340044	-103.768
18,900.00	90.00	359.66	8,940.00	9,920.63	-239.62	487,999.29	715,651.15	32.340319	-103.768
18,953.83	90.00	359.66	8,940.00	9,974.45	-239.94	488,053.12	715,650.83	32.340467	-103.768
	3954' MD, 100		*			,	,		
19,000.00	90.00	359.66	8,940.00	10,020.62	-240.22	488,099.28	715,650.56	32.340594	-103.768
19,033.82	90.00	359.66	8,940.00	10,054.44	-240.42	488,133.10	715,650.36	32.340687	-103.768
	0' FNL, 1650' I		5,5 10.00	. 0,00 1. 1 7	2.0.12	.55,155.15		52.010001	100.100
19,033.83	90.00	359.66	8,940.00	10,054.45	-240.42	488,133.11	715,650.36	32.340687	-103.768

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Aleutian 10-3 Fe - plan misses target of - Point	0.00 center by 894	0.01 0.00ft at 1903	0.00 33.83ft MD (	10,054.45 (8940.00 TVD,	-240.42 10054.45 N,	488,133.11 -240.42 E)	715,650.36	32.340687	-103.768919

Database: EDM r5000.141\_Prod US
Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 10-T23S-R31E

Well: Aleutian 10-3 Fed Com 522H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Aleutian 10-3 Fed Com 522H

RKB @ 3413.60ft RKB @ 3413.60ft

Grid

Plan Annotations					
N	Measured	Vertical	Local Coor	dinates	
	Depth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	8,377.15	8,367.04	-275.00	-179.00	KOP & FTP @ 8377' MD, 200' FSL, 1650' FWL
	13,786.00	8,940.00	4,806.72	-209.22	Cross section @ 13786' MD, 0' FSL, 1650' FWL
	18,953.83	8,940.00	9,974.45	-239.94	LTP @ 18954' MD, 100' FNL, 1650' FWL
	19,033.82	8,940.00	10,054.44	-240.42	PBHL; 20' FNL, 1650' FWL

# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

# Aleutian 10-3 Fed Com 214H

315 FSL, 850 FEL Section 10, T.23., R. 31E. 300 FNL, 900 FEL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 514H

315 FSL, 670 FEL Section 10, T.23., R. 31E. 20 FNL, 330 FEL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 524H

315 FSL, 700 FEL Section 10, T.23., R. 31E. 20 FNL, 990 FEL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 212H

525 FSL, 1000 FEL Section 10, T.23., R. 31E. 300 FNL, 1650 FWL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 512H

475 FSL, 1859 FWL Section 10, T.23., R. 31E. 20 FNL, 2310 FWL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 522H

475 FSL, 1829 FEL Section 10, T.23., R. 31E. 20 FNL, 1650 FWL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 513H

790 FSL, 1897 FEL Section 10, T.23., R. 31E. 20 FNL, 1650 FEL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 523H

790 FSL, 1957 FEL Section 10, T.23., R. 31E. 20 FNL, 2310 FEL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 213H

790 FSL, 1927 FEL Section 10, T.23., R. 31E. 20 FNL, 2310 FEL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 210H

475 FSL, 1889 FWL Section 10, T.23., R. 31E. 20 FNL, 1650 FWL Section 3, T.23., R. 31E.

#### Aleutian 10-3 Fed Com 211H

525 FSL, 970 FWL Section 10, T.23., R. 31E. 20 FNL, 330 FWL Section 3, T.23., R. 31E.

## Aleutian 10-3 Fed Com 511H

525 FSL, 940 FWL Section 10, T.23., R. 31E. 20 FNL, 950 FWL Section 3, T.23., R. 31E.

# 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
X	Special Requirements

Lesser Prairie-Chicken Timing Stipulations					
Ground-level Abandoned Well Marker					
Potash					
Range					
☐ Construction					
Notification					
Topsoil					
Closed Loop System					
Federal Mineral Material Pits					
Well Pads					
Roads					
<b>☐</b> 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.

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# V. SPECIAL REQUIREMENT(S)

# <u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

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.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: 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.

# Range

#### **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.

Lessees must comply with the 2012Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Aleutian Drill Island (See Potash Memo and Map in attached file for Drill Island description).

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# 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)

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# **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**

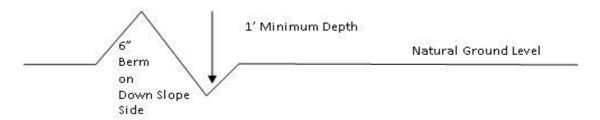
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill 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

# 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.

Page 8 of 19

# **Construction Steps**

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 4. Revegetate slopes 2. Construct road

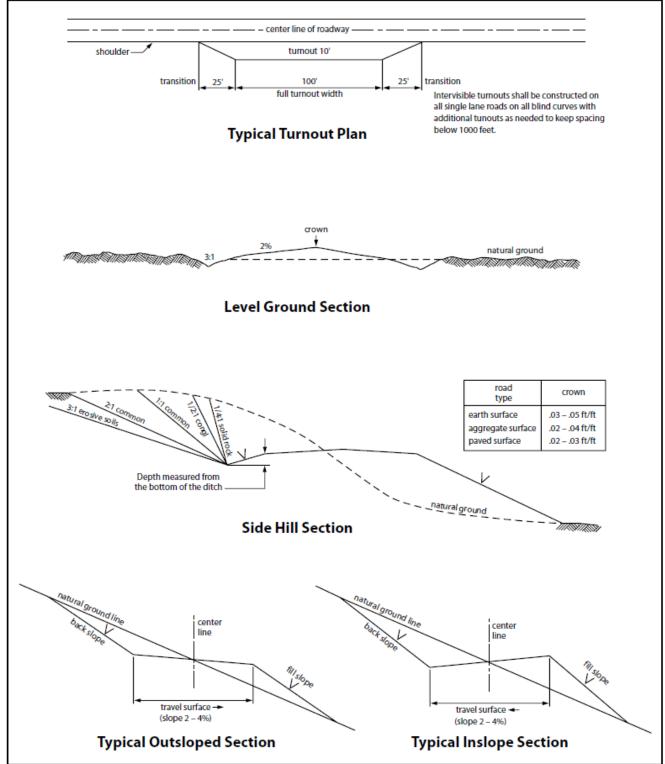


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

# 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 1½ 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 1½ 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.

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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 <u>36</u> inches between the top of pipe and ground level.	f the				
7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:					
• Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <b>20</b> feet. The trench is included in this area. ( <i>Blacis defined as the complete removal of brush and ground vegetation.</i> )	ding				
• 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 this area. (Clearing is defined as the removal of brush while leaving ground vegetal (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to inches above the ground surface.)	l in tion				
• The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. ( <i>Compressing can be caused by vehicle tires, placement of equipmen etc.</i> )	_				
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately6 inches in depth. The topsoil will be segregate 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 to stabilize soil conditions.					

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and which are in accordance with sound resource management practices.

	der will reseed all disturbed areas. irements, using the following seed	Seeding will be done according to the attached mix.
	( ) seed mixture 1	( ) seed mixture 3
	(X) seed mixture 2	( ) seed mixture 4
	( ) seed mixture 2/LPC	( ) Aplomado Falcon Mixture
to blend with	the natural color of the landscape.	safety requirements shall be painted by the holder. The paint used shall be color which simulates en, Munsell Soil Color No. 5Y 4/2.
way and at al number, and	Il road crossings. At a minimum, s the product being transported. All	he point of origin and completion of the right-of- igns will state the holder's name, BLM serial signs and information thereon will be posted in a aintained in a legible condition for the life of the
maintenance before maintenance pipeline route	as determined necessary by the Au enance begins. The holder will tak e is not used as a roadway. As dete	as a road for purposes other than routine athorized Officer in consultation with the holder whatever steps are necessary to ensure that the ermined necessary during the life of the pipeline, onstruct temporary deterrence structures.
discovered by immediately immediate ar Authorized C determine ap holder will be	y the holder, or any person working reported to the Authorized Officer rea of such discovery until written a Officer. An evaluation of the disco- propriate actions to prevent the los	tes (historic or prehistoric site or object) g on his behalf, on public or Federal land shall be . Holder shall suspend all operations in the authorization to proceed is issued by the very will be made by the Authorized Officer to s of significant cultural or scientific values. The tion and any decision as to proper mitigation er after consulting with the holder.
of operations which includ of weeds due	s. Weed control shall be required or les associated roads, pipeline corrid to this action. The operator shall c	exious weeds become established within the areas in the disturbed land where noxious weeds exist, for and adjacent land affected by the establishment consult with the Authorized Officer for acceptable at EPA and BLM requirements and policies.
otherwise fer	nced, screened, or netted to prevent	t and maintain pipeline/utility trenches that are not livestock, wildlife, and humans from becoming astruct 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:

# <u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

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.

#### 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

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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.

# 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.

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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.

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#### 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**

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

<sup>\*</sup>Pounds of pure live seed:

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

## X. Potash Resources

Lessees must comply with the 2012Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Aleutian Drill Island.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP
WELL NAME & NO.: Aleutian 10-3 Fed Com 522H
LOCATION: Sec 10-23S-31E-NMP
COUNTY: Eddy County, New Mexico

COA

H2S	O Yes	No	
Potash	O None	Secretary	© R-111-P
Cave/Karst Potential	• Low	Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	Fluid Filled		☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>▼</b> COM	□ Unit

#### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### **B. CASING**

- 1. The **13-3/8** inch surface casing shall be set at approximately 725 feet (a minimum of 70 feet (Eddy 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 **24 hours in the Potash Area** 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 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
  - ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

## Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

#### 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. 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 **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)

  - ✓ Lea CountyCall 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 2<sup>nd</sup> 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 intergrity 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 intergrity 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

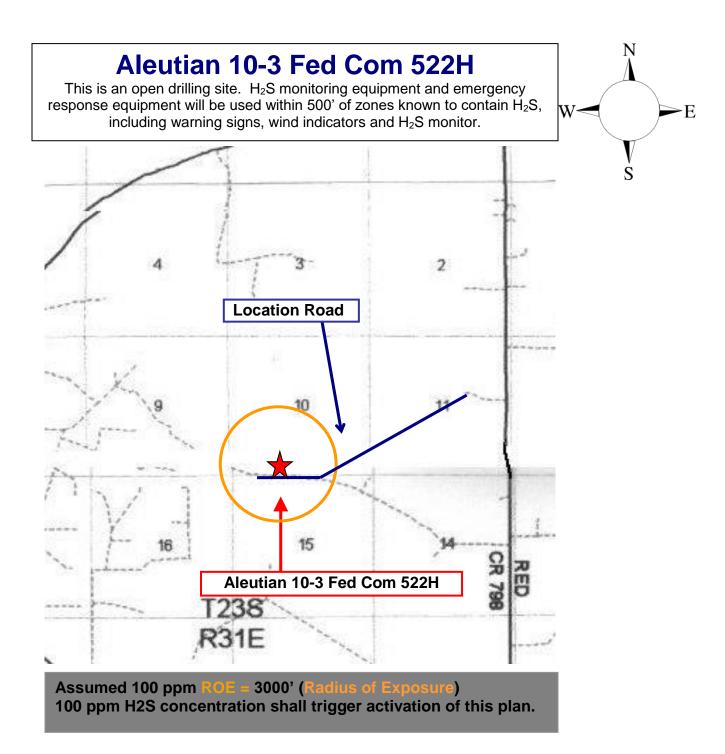
## Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

Aleutian 10-3 Fed Com 522H

Sec-10 T-23S R-31E 475' FSL & 1829' FWL LAT. = 32.3130463' N (NAD83) LONG = 103.7683124' W

**Eddy County NM** 



## **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 H<sub>2</sub>S concentration shall trigger activation of this plan.

## **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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 H<sub>2</sub>S 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 (SO<sub>2</sub>). 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 H<sub>2</sub>S and SO<sub>2</sub>

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	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 (H<sub>2</sub>S) 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 (H<sub>2</sub>S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H<sub>2</sub>S 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:

- The effects of H<sub>2</sub>S 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 H<sub>2</sub>S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

### II. HYDROGEN SULFIDE TRAINING

Note: All H<sub>2</sub>S 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 H<sub>2</sub>S.

## 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. H<sub>2</sub>S detection and monitoring equipment:

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

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

## 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 H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

## 5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S 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 H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
<u>Agency</u>	Call List	
<u>Lea</u>	Hobbs	
County	Lea County Communication Authority	393-3981
(575)	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy	Carlsbad	
<u>County</u>	State Police	885-3137
(575)	City Police	885-2111
<u> </u>	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	(000) 200-7110
	Wild Well Control	(201) 704 4700
		(281) 784-4700
	Cudd Pressure Control (915) 699-0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
GPS position:	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366

Prepared in conjunction with Dave Small