Form 3160-3 (June 2015)

UNITED STATES

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

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. Lease Serial No.

FORM APPROVED

BUREAU OF LAND MANAG	EMENT	NMLC0062300			
APPLICATION FOR PERMIT TO DRI	LL OR REENTER	6. If Indian, Allotee or	Tribe Name		
1b. Type of Well: ✓ Oil Well ☐ Gas Well ☐ Other	NTER e Zone Multiple Zone	7. If Unit or CA Agreer 8. Lease Name and We BIG SINKS DRAW 25	ll No.		
Name of Operator DEVON ENERGY PRODUCTION COMPANY LP		734H 9. API Well No. 30 015 47526			
	. Phone No. <i>(include area code)</i> 00) 583-3866	10. Field and Pool, or E PURPLE SAGE/WOL			
4. Location of Well (Report location clearly and in accordance with At surface SENE / 2482 FNL / 450 FEL / LAT 32.1017275 At proposed prod. zone NENE / 330 FNL / 330 FEL / LAT 32	5 / LONG -103.7245075	11. Sec., T. R. M. or BI SEC 25/T25S/R31E/N			
14. Distance in miles and direction from nearest town or post office*	•	12. County or Parish EDDY	13. State		
location to nearest 450 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	480.0	ng Unit dedicated to this	well		
to nearest well, drilling, completed, occ.		/BIA Bond No. in file MB000801			
3341 feet 02	2. Approximate date work will start* 2/28/2021	23. Estimated duration 45 days			
The following, completed in accordance with the requirements of Or (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office).	4. Bond to cover the operation Item 20 above).	ns unless covered by an ex	isting bond on file (see		
25. Signature (Electronic Submission)	Name (Printed/Typed) JENNY HARMS / Ph: (800) 583-3	3866 Da	ate 8/27/2020		
Title Regulatory Compliance Professional					
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575) 234-5959	Da 09	ate 9/29/2020		
Title Assistant Field Manager Lands & Minerals	Office Carlsbad Field Office				
Applicant to conduct operations thereon	olds legal or equitable title to those rights	in the subject lease which	h would entitle the		

Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

• Will require a directional survey with the C-104

(Continued on page 2)



Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

KP 10/5/2020 GEO Review

*(Instructions on page 2)

Entered - KMS NMOCD

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

<u>District III</u> 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

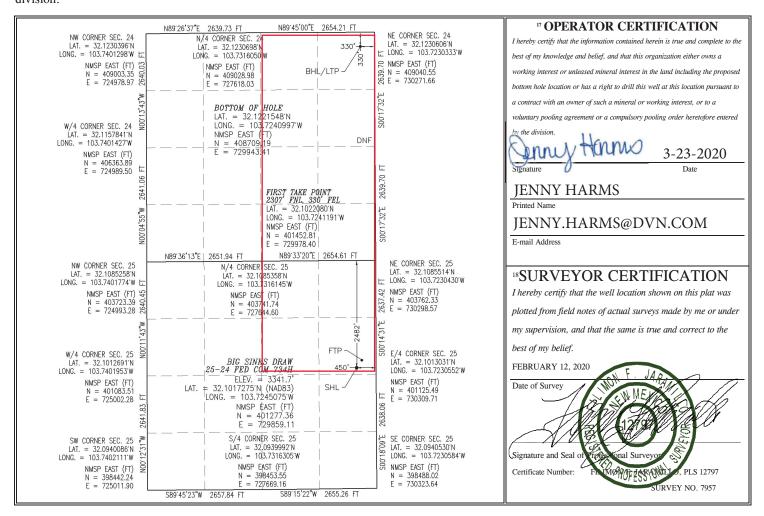
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numb		³ Pool Name					
30 015 47526	98220	PURPLE SAGE; WOLFCAMP (G	AS)				
⁴ Property Code	5	⁵ Property Name					
317584	BIG SINKS I	BIG SINKS DRAW 25-24 FED COM					
⁷ OGRID No.	8	8 Operator Name					
6137	DEVON ENERGY PE	DEVON ENERGY PRODUCTION COMPANY, L.P.					

¹⁰ Surface Location

					¹⁰ Surtace	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
H	25	25 S	31 E		2482	NORTH	450	EAST	EDDY			
¹¹ Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
A	24	25 S	31 E		330	NORTH	330	EAST	EDDY			
12 Dedicated Acre	s ¹³ Joint	or Infill	Consolidation	1 Code			15 Order No.					
480												

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



Inten	t X	As Drill	ed											
API#	:]											
Оре	rator Nan	ne:				Property	Name:						Well Number	
DE\	ON ENE	RGY PROI	DUCTION	I CO.,	L.P.	ВІ	G SINI	(S DR	AW 25-	24 F	ED C	ОМ	734H	
(ick (Off Point (KOD)												
UL H	Section 25	Township 25S	Range 31E	Lot	Feet 2590 FN	From	N/S 330 FEL	Feet	F	rom I	E/W	County EDDY		
Latitu	Latitude													
	Γake Poin													
UL H	Section 25	Township 25S	Range 31E	Lot	Feet 2307	From NO	N/S RTH	Feet 330	E	rom I	- -	County EDDY		
Latitu	ude 32.102	2080			Longitu							NAD 83		
ast T	Section 24	Township 25S	Range 31E	Lot	Feet 330	From N/S NORTH	Feet		From E/\ EAST	w T	Count'	y Y		
Latitu		 221548			Longitu	de 103.72	4099	7			NAD	83		
s this	s well the	defining we	ell for the	Horizo	ontal Spa	cing Unit?		YES]					
s this	s well an i	nfill well?		NO										
paci	ng Unit.	lease prov	ide API if	availa	ıble, Ope	erator Nar	ne and	well	number	for	Defir	ning well	for Horizontal	
API#	: 													
Ope	rator Nan	ne:				Property	Name:						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	CA	DТ	TID	F	DΙ	AT	J
TAS	I.A			· ·		ANI'	•

Date: March 26, 2020	
⊠ Original	Devon & OGRID No.: <u>Devon Energy Production Co., L.P.</u> 6137
☐ Amended - Reason for Amendment:	
This Gas Capture Plan outlines actions to be take (new drill, recomplete to new zone, re-frac) active	en by the Devon to reduce well/production facility flaring/venting for new completion

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	Footages	Expected	Flared or	Comments
		Location		MCF/D	Vented	
Big Sinks Draw 25-24 Fed Com 831H		LOT E, 25-25S-31E	2484 FNL 1015 FWL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 302H		LOT F, 25-25S-31E	2483 FNL 2220 FWL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 713H		LOT G, 25-25S-31E	2483 FNL 1780 FEL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 613H		LOT G, 25-25S-31E	2483 FNL 1750 FEL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 733H		LOT G, 25-25S-31E	2483 FNL 1720 FEL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 714H		LOT H, 25-25S-31E	2482 FNL 510 FEL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 334H		LOT H, 25-25S-31E	2482 FNL 480 FEL			Big Sinks Draw 25 CTB 2
Big Sinks Draw 25-24 Fed Com 734H		LOT H, 25-25S-31E	2482 FNL 450 FEL			Big Sinks Draw 25 CTB 2

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 the reference table. 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

- 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

Reference Table:

DCP Plant locations Artesia Sec. 7, T18S, R28E, Eunice Sec. 5, T21S, R36E Linam Sec. 6, T19S, R37E

Zia II Sec. 19, T19S, R32E

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 25-T25S-R31E Big Sinks Draw 25-24 Fed Com 734H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

18 March, 2020

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

Eddy County (NAD 83 NM Eastern)

Project: Site:

Well:

Sec 25-T25S-R31E

Wellbore: Design: Big Sinks Draw 25-24 Fed Com 734H

Wellbore #1
Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 734H

RKB @ 3366.70ft RKB @ 3366.70ft

Grid

Minimum Curvature

Project Eddy County (NAD 83 NM Eastern)

Map System: Geo Datum:

Map Zone:

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

Mean Sea Level

Site Sec 25-T25S-R31E

403,723.39 usft Northing: Site Position: Latitude: 32.108526 724,993.28 usft -103.740178 Мар Easting: From: Longitude: Slot Radius: 13-3/16 " 0.32 **Position Uncertainty:** 5.00 ft **Grid Convergence:**

Well Big Sinks Draw 25-24 Fed Com 734H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 401,277.36 usft
 Latitude:
 32.101728

 +E/-W
 0.00 ft
 Easting:
 729,859.11 usft
 Longitude:
 -103.724508

Position Uncertainty 0.50 ft Wellhead Elevation: Ground Level: 3,341.70 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 3/17/2020 59.89 47,567.95288693 IGRF2015 6 72

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 0.65

Plan Survey Tool Program Date 3/18/2020

Depth From Depth To (ft) (ft)

(ft) Survey (Wellbore)

Tool Name

Remarks

1 0.00 19,505.51 Permit Plan 1 (Wellbore #1)

MWD+HDGM OWSG MWD + HDGM

Plan Sections Vertical Measured Dogleg Build Turn Inclination +N/-S Depth Azimuth Depth +E/-W Rate Rate Rate TFO (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/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 2.606.33 1.06 131.99 2.606.32 -0.66 0.73 1.00 1.00 0.00 131.99 11,217.61 1.06 131.99 11,216.12 -107.56 119.51 0.00 0.00 0.00 0.00 11,288.49 0.00 0.00 11,287.00 -108.00 120.00 1.50 -1.50 0.00 180.00 11,638.53 0.00 0.00 11,637.04 -108.00 120.00 0.00 0.00 0.00 12,538.54 90.00 359.73 12,210.00 464.95 117.29 10.00 10.00 0.00 359.73 PBHL - Big Sinks Dra 19,505.51 0.00 PBHL - Big Sinks Dra 90.00 359.73 12,210.00 7,431.85 84.30 0.00 0.00 0.00

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 25-T25S-R31E

Well: Big Sinks Draw 25-24 Fed Com 734H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 734H

RKB @ 3366.70ft RKB @ 3366.70ft

Grid

anned 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	401,277.36	729,859.11	32.101728	-103.72450
100.00	0.00	0.00	100.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.72450
200.00	0.00	0.00	200.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.72450
300.00	0.00	0.00	300.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.72450
400.00	0.00	0.00	400.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
500.00	0.00	0.00	500.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
600.00	0.00	0.00	600.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
700.00	0.00	0.00	700.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
800.00	0.00	0.00	800.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
900.00	0.00	0.00	900.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,000.00	0.00	0.00	1,000.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
		0.00		0.00	0.00				-103.7245
1,100.00 1,200.00	0.00		1,100.00	0.00		401,277.36	729,859.11 729,859.11	32.101728	-103.7245
		0.00	1,200.00		0.00	401,277.36		32.101728	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,400.00	0.00	0.00	1,400.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,500.00	0.00	0.00	1,500.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,600.00	0.00	0.00	1,600.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,700.00	0.00	0.00	1,700.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,800.00	0.00	0.00	1,800.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
1,900.00	0.00	0.00	1,900.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.7245
2,000.00	0.00	0.00	2,000.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.724
2,100.00	0.00	0.00	2,100.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.724
2,200.00	0.00	0.00	2,200.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.724
2,300.00	0.00	0.00	2,300.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.724
2,400.00	0.00	0.00	2,400.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.724
2,500.00	0.00	0.00	2,500.00	0.00	0.00	401,277.36	729,859.11	32.101728	-103.724
2,600.00	1.00	131.99	2,599.99	-0.58	0.65	401,276.78	729,859.75	32.101726	-103.724
2,606.33	1.06	131.99	2,606.32	-0.66	0.73	401,276.70	729,859.84	32.101726	-103.724
2,700.00	1.06	131.99	2,699.98	-1.82	2.03	401,275.54	729,861.13	32.101723	-103.724
2,800.00	1.06	131.99	2,799.96	-3.06	3.40	401,274.29	729,862.51	32.101719	-103.724
2,900.00	1.06	131.99	2,899.94	-4.31	4.78	401,273.05	729,863.89	32.101716	-103.724
3,000.00	1.06	131.99	2,999.93	-5.55	6.16	401,271.81	729,865.27	32.101712	-103.724
3,100.00	1.06	131.99	3,099.91	-6.79	7.54	401,270.57	729,866.65	32.101709	-103.724
3,200.00	1.06	131.99	3,199.89	-8.03	8.92	401,269.33	729,868.03	32.101705	-103.724
3,300.00	1.06	131.99	3,299.87	-9.27	10.30	401,268.09	729,869.41	32.101702	-103.724
3,400.00	1.06	131.99	3,399.86	-10.51	11.68	401,266.85	729,870.79	32.101699	-103.724
3,500.00	1.06	131.99	3,499.84	-11.75	13.06	401,265.61	729,872.17	32.101695	-103.724
3,600.00	1.06	131.99	3,599.82	-13.00	14.44	401,264.36	729,873.55	32.101692	-103.724
3,700.00	1.06	131.99	3,699.81	-14.24	15.82	401,263.12	729,874.92	32.101688	-103.724
3,800.00	1.06	131.99	3,799.79	-15.48	17.20	401,261.88	729,876.30	32.101685	-103.724
3,900.00	1.06	131.99	3,899.77	-16.72	18.58	401,260.64	729,877.68	32.101681	-103.724
4,000.00	1.06	131.99	3,999.75	-17.96	19.96	401,259.40	729,879.06	32.101678	-103.724
4,100.00	1.06	131.99	4,099.74	-17.90	21.34	401,258.16	729,880.44	32.101675	-103.724
4,100.00		131.99	4,099.74	-19.20 -20.44	21.34	401,256.92	729,881.82	32.101675	-103.724
4,200.00	1.06	131.99	4,199.72	-20.44 -21.69	24.09	401,255.67	729,883.20	32.101671	-103.724
	1.06		*				729,883.20 729,884.58		
4,400.00	1.06	131.99	4,399.69	-22.93	25.47	401,254.43	,	32.101664	-103.724
4,500.00	1.06	131.99	4,499.67	-24.17	26.85	401,253.19	729,885.96	32.101661	-103.724
4,600.00	1.06	131.99	4,599.65	-25.41	28.23	401,251.95	729,887.34	32.101657	-103.724
4,700.00	1.06	131.99	4,699.63	-26.65	29.61	401,250.71	729,888.72	32.101654	-103.724
4,800.00	1.06	131.99	4,799.62	-27.89	30.99	401,249.47	729,890.10	32.101650	-103.724
4,900.00	1.06	131.99	4,899.60	-29.13	32.37	401,248.23	729,891.48	32.101647	-103.724
5,000.00	1.06	131.99	4,999.58	-30.37	33.75	401,246.98	729,892.86	32.101644	-103.724
5,100.00	1.06	131.99	5,099.56	-31.62	35.13	401,245.74	729,894.24	32.101640	-103.7243
5,200.00	1.06	131.99	5,199.55	-32.86	36.51	401,244.50	729,895.61	32.101637	-103.7243
5,300.00	1.06	131.99	5,299.53	-34.10	37.89	401,243.26	729,896.99	32.101633	-103.7243

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 25-T25S-R31E

Well: Big Sinks Draw 25-24 Fed Com 734H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 734H

RKB @ 3366.70ft RKB @ 3366.70ft

Grid

Measured Depth Inclination Arimuth Cyri	Planned Survey									
5,500,00 10 131,99 5,599,48 -37,82 40,05 401,207,67 728,890,16 32,101628 -103,724373 5,700,00 10 131,99 5,599,48 -37,82 42,03 401,237,65 729,902,51 32,101620 -103,724384 5,500,00 10 131,99 5,599,44 40,31 44,78 401,237,65 729,903,89 32,101620 -103,724384 5,000,00 10 131,99 5,999,44 44,75 401,235,81 729,903,87 32,101601 -103,724395 6,000,00 10 131,99 5,999,99 44,03 48,92 401,233,33 729,908,01 32,101600 -103,724356 6,000,00 10 131,99 6,999,39 45,57 51,68 401,230,85 729,910,79 32,101600 -103,724356 6,000,00 10 106 131,99 6,999,39 45,57 53,68 401,220,80 729,912,17 32,101690 +103,724356 6,000,00 10 10 131,99 6,999,99	Depth			Depth			Northing	Easting	Latitude	Longitude
5,700,00	5,400.00	1.06	131.99	5,399.51	-35.34	39.27	401,242.02	729,898.37	32.101630	-103.724382
5,700,00 1,06 131,99 5,890,44 -0.31 44.78 40,237,05 729,903,89 32,101616 103,724,348 5,900,00 1,06 131,99 5,980,44 -0.31 41,55 46.16 401,237,05 729,905,627 32,1016163 103,724,359 6,000,00 1,06 131,99 5,989,44 -42,74 40,428,55 172,906,65 22 32,101606 -103,724,349 6,200,00 1,06 131,99 6,993,34 -45,75 50,30 401,232,09 729,908,41 32,101606 -103,724,349 6,000,00 1,06 131,99 4,993,44 -47,75 50,30 401,232,09 729,901,79 32,101699 -103,724,347 6,500,00 1,06 131,99 6,993,34 -47,75 53,06 401,228,06 729,911,79 32,101599 -103,724,343 6,500,00 1,06 131,99 6,993,31 -50,24 55,82 401,222,16 729,911,86 32,101592 -103,724,343 6,500,00 1,06 131,99	5,500.00	1.06	131.99	5,499.50	-36.58	40.65	401,240.78	729,899.75	32.101626	-103.724377
5,800.00 1,08 131.99 5,999.44 -40.31 44.78 401.237.05 729.90.68 32.101616 -103.7244894 6,000.00 1,08 131.99 5,999.41 -27.79 47.54 401.234.67 729.906.65 32.1016109 1-03.7244891 6,200.00 1,08 131.99 6,999.39 -44.03 401.234.67 729.906.09 32.101600 1-03.7244361 6,300.00 1,08 131.99 6,999.38 -46.51 51.88 401.232.09 729.900.94 32.101600 1-03.7244361 6,500.00 1,08 131.99 6,999.34 -47.75 53.06 401.228.96 729.910.79 32.101509 -103.724328 6,500.00 1,08 131.99 6,999.31 -50.24 55.82 401.227.12 729.914.93 32.101509 -103.724328 6,700.00 1,06 131.99 6,999.27 -52.72 58.58 401.224.64 729.914.03 32.101509 -103.724351 7,000.00 1,06 131.99 7,999.22 -55.20	5,600.00	1.06	131.99	5,599.48	-37.82	42.03	401,239.54	729,901.13	32.101623	-103.724373
6,900.00 1,06 131.99 5,999.43 -14.75 41.55 46.16 401,234.57 27.99,06.627 32.101613 1-03.724356 6.100.00 1.06 131.99 6,999.41 -27.99 47.54 401,233.33 72.99,06.65 32.101606 -103.724361 6.200.00 1.08 131.99 6,99.38 -45.27 50.30 401,233.33 72.99,06.03 32.101606 -103.724346 6.300.00 1.08 131.99 6,99.38 -45.27 50.30 401,232.08 72.99.10179 32.101609 -103.724347 6.500.00 1.08 131.99 6,99.31 -50.24 401,022.86 72.99.1179 32.101699 -103.724373 6.500.00 1.08 131.99 6,99.31 -50.24 450.22 -49.00 54.44 401.228.88 72.99.11.95 32.101699 -103.724374 70.00.00 1.08 131.99 6,99.92 -51.48 57.20 401.222.16 72.99.14.93 32.101689 -103.724374 70.00.00 1.08 131.99 6,99.92 -51.48 57.29 401.222.16 72	5,700.00	1.06	131.99					729,902.51	32.101620	
6,100.00 1,06 131,99 6,099.31 -42.79 47.54 401,234.57 729,906.65 32,101609 1-03.724351 6,200.00 1,06 131.99 6,099.39 -44.03 48.92 401,233.33 729,908.03 32,101606 1-03.724361 6,200.00 1,06 131.99 6,299.38 -48.51 51.88 401,232.09 729,909.41 32,101602 1-03.724346 6,400.00 1,06 131.99 6,993.8 -48.51 51.88 401,230.85 729,910.79 32,0101506 1-03.724337 6,500.00 1,06 131.99 6,999.32 -49.00 54.44 401,228.06 729,912.17 32,101506 1-03.724337 6,500.00 1,06 131.99 6,999.21 -50.24 55.2 401,227.12 729,913.55 32,101509 1-03.724328 6,600.00 1,06 131.99 6,999.27 -52.72 58.88 401,224.64 729,916.83 32,101589 1-03.724328 6,600.00 1,06 131.99 6,999.27 -52.72 58.88 401,224.64 729,916.83 32,101582 1-03.724328 6,600.00 1,06 131.99 6,899.27 -52.72 58.88 401,224.64 729,917.68 32,101582 1-03.724320 7,000.00 1,06 131.99 6,899.22 -55.49 6,900.00 1,06 131.99 6,899.22 -55.49 6,900.00 1,06 131.99 6,899.22 -55.49 6,900.00 1,06 131.99 6,899.22 -55.40 61.34 401,222.16 729,910.44 32,101575 1-03.724320 7,000.00 1,06 131.99 7,199.20 -57.69 64.10 401,229.10 729,921.82 32,101568 1-03.724307 7,000.00 1,06 131.99 7,799.71 5.89 65.47 401,221.19 729,924.85 32,101568 1-03.724307 7,000.00 1,06 131.99 7,799.17 5.80 64.10 401,218.45 729,924.85 32,101568 1-03.724307 7,000.00 1,06 131.99 7,799.17 5.80 64.10 401,218.45 729,924.85 32,101568 1-03.724307 7,000.00 1,06 131.99 7,799.17 5.80 64.10 401,218.47 729,924.85 32,101568 1-03.724307 7,000.00 1,06 131.99 7,799.17 5.80 64.10 401,218.47 729,924.85 32,101568 1-03.724307 7,000.00 1,06 131.99 7,799.10 5.85 67 67 69 4.10 401,218.47 729,924.85 32,101564 1-03.724207 7,000.00 1,06 131.99 7,799.10 5.85 67 67 60 4.10 401,218.47 729,924.85 32,101564 1-03.724207 7,000.00 1,06 131.99 7,899.87 6.50 69.10 401,218.47 729,924.85 32,101564 1-03.724207 7,000.00 1,06 131.99 7,899.80 6.50 7,000.00 7,000	5,800.00	1.06				44.78	,		32.101616	
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9,700.00 1.06 131.99 9,698.77 -88.72 98.58 401,188.64 729,957.68 32.101482 -103.724191 9,800.00 1.06 131.99 9,798.76 -89.96 99.96 401,187.40 729,959.06 32.101479 -103.724187 9,900.00 1.06 131.99 9,898.74 -91.20 101.34 401,186.16 729,960.44 32.101475 -103.724182 10,000.00 1.06 131.99 9,998.72 -92.44 102.72 401,184.91 729,961.82 32.101472 -103.724178 10,100.00 1.06 131.99 10,098.70 -93.69 104.10 401,183.67 729,963.20 32.101468 -103.724173 10,200.00 1.06 131.99 10,198.69 -94.93 105.47 401,182.43 729,964.58 32.101465 -103.724169 10,300.00 1.06 131.99 10,298.67 -96.17 106.85 401,181.19 729,965.96 32.101462 -103.724165 10,500.00 1.06 131.99 10,398.65 -97.41 108.23 401,178.71 729,968.72 32.101458 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
9,800.00 1.06 131.99 9,798.76 -89.96 99.96 401,187.40 729,959.06 32.101479 -103.724187 9,900.00 1.06 131.99 9,898.74 -91.20 101.34 401,186.16 729,960.44 32.101475 -103.724182 10,000.00 1.06 131.99 9,998.72 -92.44 102.72 401,184.91 729,961.82 32.101472 -103.724178 10,100.00 1.06 131.99 10,098.70 -93.69 104.10 401,183.67 729,963.20 32.101468 -103.724173 10,200.00 1.06 131.99 10,198.69 -94.93 105.47 401,182.43 729,964.58 32.101465 -103.724169 10,300.00 1.06 131.99 10,298.67 -96.17 106.85 401,181.19 729,965.96 32.101462 -103.724165 10,400.00 1.06 131.99 10,398.65 -97.41 108.23 401,179.95 729,967.34 32.101458 -103.724160 10,500.00 1.06 131.99 10,498.63 -98.65 109.61 401,178.71 729,968.72 32.101455								,		
9,900.00 1.06 131.99 9,898.74 -91.20 101.34 401,186.16 729,960.44 32.101475 -103.724182 10,000.00 1.06 131.99 9,998.72 -92.44 102.72 401,184.91 729,961.82 32.101472 -103.724178 10,100.00 1.06 131.99 10,098.70 -93.69 104.10 401,183.67 729,963.20 32.101468 -103.724173 10,200.00 1.06 131.99 10,198.69 -94.93 105.47 401,182.43 729,964.58 32.101465 -103.724169 10,300.00 1.06 131.99 10,298.67 -96.17 106.85 401,181.19 729,965.96 32.101462 -103.724165 10,400.00 1.06 131.99 10,398.65 -97.41 108.23 401,179.95 729,967.34 32.101458 -103.724160 10,500.00 1.06 131.99 10,498.63 -98.65 109.61 401,178.71 729,968.72 32.101455 -103.724156 10,600.00 1.06 131.99 10,598.62 -99.89 110.99 401,177.47 729,970.10 32.101451										
10,000.00 1.06 131.99 9,998.72 -92.44 102.72 401,184.91 729,961.82 32.101472 -103.724178 10,100.00 1.06 131.99 10,098.70 -93.69 104.10 401,183.67 729,963.20 32.101468 -103.724173 10,200.00 1.06 131.99 10,198.69 -94.93 105.47 401,182.43 729,964.58 32.101465 -103.724169 10,300.00 1.06 131.99 10,298.67 -96.17 106.85 401,181.19 729,965.96 32.101462 -103.724165 10,400.00 1.06 131.99 10,398.65 -97.41 108.23 401,179.95 729,967.34 32.101458 -103.724160 10,500.00 1.06 131.99 10,498.63 -98.65 109.61 401,178.71 729,968.72 32.101455 -103.724156 10,600.00 1.06 131.99 10,598.62 -99.89 110.99 401,177.47 729,970.10 32.101451 -103.724151 10,700.00 1.06 131.99 10,698.60 -101.13 112.37 401,176.22 729,971.48 32.101448										
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10,700.00 1.06 131.99 10,698.60 -101.13 112.37 401,176.22 729,971.48 32.101448 -103.724147										
TU 800 DO - TU6 - 131 99 - 10 798 58102 38 - 113 75 - 401 174 98 - 729 972 86 - 32 1014/4103 72/41/2 ↓	10,700.00	1.06	131.99	10,098.58	-101.13	113.75	401,174.98	729,971.46	32.101444	-103.724147

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 25-T25S-R31E

Well: Big Sinks Draw 25-24 Fed Com 734H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 734H

RKB @ 3366.70ft RKB @ 3366.70ft

Grid

Planned Survey									
_									
Measured			Vertical			Мар	Map		
Depth (ft)	Inclination	Azimuth	Depth (ft)	+N/-S	+E/-W	Northing (usft)	Easting (usft)	1 -414	1
	(°)	(°)	(11)	(ft)	(ft)	(usit)	(usit)	Latitude	Longitude
10,900.00	1.06	131.99	10,898.57	-103.62	115.13	401,173.74	729,974.24	32.101441	-103.724138
11,000.00	1.06	131.99	10,998.55	-104.86	116.51	401,172.50	729,975.62	32.101438	-103.724133
11,100.00	1.06	131.99	11,098.53	-106.10	117.89	401,171.26	729,977.00	32.101434	-103.724129
11,200.00	1.06	131.99	11,198.51	-107.34	119.27	401,170.02	729,978.37	32.101431	-103.724125
11,217.61	1.06	131.99	11,216.12	-107.56	119.51	401,169.80	729,978.62	32.101430	-103.724124
11,288.49	0.00	0.00	11,287.00	-108.00	120.00 120.00	401,169.36 401,169.36	729,979.11	32.101429	-103.724122 -103.724122
11,300.00	0.00	0.00	11,298.51	-108.00		,	729,979.11	32.101429	
11,400.00 11,500.00	0.00	0.00	11,398.51 11,498.51	-108.00 -108.00	120.00 120.00	401,169.36 401,169.36	729,979.11 729,979.11	32.101429 32.101429	-103.724122 -103.724122
11,600.00	0.00	0.00	11,598.51	-108.00	120.00	401,169.36	729,979.11	32.101429	-103.724122
11,638.53	0.00	0.00	11,637.04	-108.00	120.00	401,169.36	729,979.11	32.101429	-103.724122
	11639' MD, 25			-100.00	120.00	401,109.50	729,979.11	32.101423	-100.724122
11,700.00	6.15	359.73	11,698.39	-104.71	119.98	401,172.65	729,979.09	32.101438	-103.724122
11,800.00	16.15	359.73	11,796.38	-85.40	119.89	401,191.96	729,979.00	32.101491	-103.724122
11,900.00	26.15	359.73	11,889.53	-49.37	119.72	401,227.99	729,978.83	32.101590	-103.724122
12,000.00	36.15	359.73	11,975.00	2.29	119.48	401,279.65	729,978.58	32.101732	-103.724122
12,100.00	46.15	359.73	12,050.21	68.00	119.17	401,345.36	729,978.27	32.101913	-103.724122
12,200.00	56.15	359.73	12,112.86	145.78	118.80	401,423.14	729,977.90	32.102127	-103.724122
12,235.00	59.65	359.73	12,131.46	175.42	118.66	401,452.78	729,977.76	32.102208	-103.724121
FTP @ 1	2235' MD, 230	7' FNL, 330'							
12,300.00	66.15	359.73	12,161.06	233.25	118.38	401,510.61	729,977.49	32.102367	-103.724121
12,400.00	76.15	359.73	12,193.33	327.77	117.94	401,605.12	729,977.04	32.102627	-103.724121
12,500.00	86.15	359.73	12,208.70	426.45	117.47	401,703.81	729,976.58	32.102898	-103.724121
12,538.54	90.00	359.73	12,210.00	464.95	117.29	401,742.31	729,976.39	32.103004	-103.724121
12,600.00	90.00	359.73	12,210.00	526.42	117.00	401,803.77	729,976.10	32.103173	-103.724120
12,700.00	90.00	359.73	12,210.00	626.42	116.52	401,903.77	729,975.63	32.103448	-103.724120
12,800.00	90.00	359.73	12,210.00	726.41	116.05	402,003.77	729,975.16	32.103723	-103.724120
12,900.00	90.00	359.73	12,210.00	826.41	115.58	402,103.77	729,974.68	32.103997	-103.724120
13,000.00	90.00	359.73	12,210.00	926.41	115.10	402,203.77	729,974.21	32.104272	-103.724119
13,100.00	90.00	359.73	12,210.00	1,026.41	114.63	402,303.77	729,973.73	32.104547	-103.724119
13,200.00	90.00	359.73	12,210.00	1,126.41	114.16	402,403.77	729,973.26	32.104822	-103.724119
13,300.00	90.00	359.73	12,210.00	1,226.41	113.68	402,503.77	729,972.79	32.105097	-103.724118
13,400.00	90.00	359.73	12,210.00	1,326.41	113.21	402,603.76	729,972.31	32.105372	-103.724118
13,500.00	90.00	359.73	12,210.00	1,426.41	112.73	402,703.76	729,971.84	32.105647	-103.724118
13,600.00	90.00	359.73	12,210.00	1,526.41	112.26	402,803.76	729,971.37	32.105922	-103.724117
13,700.00	90.00	359.73	12,210.00	1,626.40	111.79	402,903.76 403,003.76	729,970.89	32.106197	-103.724117 -103.724117
13,800.00	90.00 90.00	359.73 359.73	12,210.00 12,210.00	1,726.40	111.31 110.84	403,103.76	729,970.42 729,969.95	32.106471	-103.724117
13,900.00 14,000.00	90.00	359.73	12,210.00	1,826.40 1,926.40	110.37	403,203.76	729,969.47	32.106746 32.107021	-103.724117
14,100.00	90.00	359.73	12,210.00	2,026.40	109.89	403,303.76	729,969.00	32.107296	-103.724116
14,200.00	90.00	359.73	12,210.00	2,126.40	109.42	403,403.75	729,968.53	32.107571	-103.724116
14,300.00	90.00	359.73	12,210.00	2,226.40	108.95	403,503.75	729,968.05	32.107846	-103.724115
14,400.00	90.00	359.73	12,210.00	2,326.40	108.47	403,603.75	729,967.58	32.108121	-103.724115
14,500.00	90.00	359.73	12,210.00	2,426.40	108.00	403,703.75	729,967.11	32.108396	-103.724115
14,556.00	90.00	359.73	12,210.00	2,482.40	107.73	403,759.75	729,966.84	32.108550	-103.724115
	ection @ 1455			,		,	-,		73
14,600.00	90.00	359.73	12,210.00	2,526.39	107.53	403,803.75	729,966.63	32.108671	-103.724114
14,700.00	90.00	359.73	12,210.00	2,626.39	107.05	403,903.75	729,966.16	32.108945	-103.724114
14,800.00	90.00	359.73	12,210.00	2,726.39	106.58	404,003.75	729,965.69	32.109220	-103.724114
14,900.00	90.00	359.73	12,210.00	2,826.39	106.11	404,103.74	729,965.21	32.109495	-103.724114
15,000.00	90.00	359.73	12,210.00	2,926.39	105.63	404,203.74	729,964.74	32.109770	-103.724113
15,100.00	90.00	359.73	12,210.00	3,026.39	105.16	404,303.74	729,964.27	32.110045	-103.724113
15,200.00	90.00	359.73	12,210.00	3,126.39	104.69	404,403.74	729,963.79	32.110320	-103.724113
15,300.00	90.00	359.73	12,210.00	3,226.39	104.21	404,503.74	729,963.32	32.110595	-103.724112

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 25-T25S-R31E

Well: Big Sinks Draw 25-24 Fed Com 734H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 734H

RKB @ 3366.70ft RKB @ 3366.70ft

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
15,400.00	90.00	359.73	12,210.00	3,326.39	103.74	404,603.74	729,962.84	32.110870	-103.724112
15,500.00	90.00	359.73	12,210.00	3,426.38	103.27	404,703.74	729,962.37	32.111144	-103.724112
15,600.00	90.00	359.73	12,210.00	3,526.38	102.79	404,803.74	729,961.90	32.111419	-103.724112
15,700.00	90.00	359.73	12,210.00	3,626.38	102.32	404,903.73	729,961.42	32.111694	-103.724111
15,800.00	90.00	359.73	12,210.00	3,726.38	101.84	405,003.73	729,960.95	32.111969	-103.724111
15,900.00	90.00	359.73	12,210.00	3,826.38	101.37	405,103.73	729,960.48	32.112244	-103.724111
16,000.00	90.00	359.73	12,210.00	3,926.38	100.90	405,203.73	729,960.00	32.112519	-103.724110
16,100.00	90.00	359.73	12,210.00	4,026.38	100.42	405,303.73	729,959.53	32.112794	-103.724110
16,200.00	90.00	359.73	12,210.00	4,126.38	99.95	405,403.73	729,959.06	32.113069	-103.724110
16,300.00	90.00	359.73	12,210.00	4,226.38	99.48	405,503.73	729,958.58	32.113344	-103.724109
16,400.00	90.00	359.73	12,210.00	4,326.37	99.00	405,603.72	729,958.11	32.113618	-103.724109
16,500.00	90.00	359.73	12,210.00	4,426.37	98.53	405,703.72	729,957.64	32.113893	-103.724109
16,600.00	90.00	359.73	12,210.00	4,526.37	98.06	405,803.72	729,957.16	32.114168	-103.724109
16,700.00	90.00	359.73	12,210.00	4,626.37	97.58	405,903.72	729,956.69	32.114443	-103.724108
16,800.00	90.00	359.73	12,210.00	4,726.37	97.11	406,003.72	729,956.22	32.114718	-103.724108
16,900.00	90.00	359.73	12,210.00	4,826.37	96.64	406,103.72	729,955.74	32.114993	-103.724108
17,000.00	90.00	359.73	12,210.00	4,926.37	96.16	406,203.72	729,955.27	32.115268	-103.724107
17,100.00	90.00	359.73	12,210.00	5,026.37	95.69	406,303.72	729,954.80	32.115543	-103.724107
17,200.00	90.00	359.73	12,210.00	5,126.37	95.22	406,403.71	729,954.32	32.115817	-103.724107
17,300.00	90.00	359.73	12,210.00	5,226.36	94.74	406,503.71	729,953.85	32.116092	-103.724106
17,400.00	90.00	359.73	12,210.00	5,326.36	94.27	406,603.71	729,953.38	32.116367	-103.724106
17,500.00	90.00	359.73	12,210.00	5,426.36	93.80	406,703.71	729,952.90	32.116642	-103.724106
17,600.00	90.00	359.73	12,210.00	5,526.36	93.32	406,803.71	729,952.43	32.116917	-103.724106
17,700.00	90.00	359.73	12,210.00	5,626.36	92.85	406,903.71	729,951.95	32.117192	-103.724105
17,800.00	90.00	359.73	12,210.00	5,726.36	92.38	407,003.71	729,951.48	32.117467	-103.724105
17,900.00	90.00	359.73	12,210.00	5,826.36	91.90	407,103.70	729,951.01	32.117742	-103.724105
18,000.00	90.00	359.73	12,210.00	5,926.36	91.43	407,203.70	729,950.53	32.118017	-103.724104
18,100.00	90.00	359.73	12,210.00	6,026.36	90.95	407,303.70	729,950.06	32.118291	-103.724104
18,200.00	90.00	359.73	12,210.00	6,126.35	90.48	407,403.70	729,949.59	32.118566	-103.724104
18,300.00	90.00	359.73	12,210.00	6,226.35	90.01	407,503.70	729,949.11	32.118841	-103.724104
18,400.00	90.00	359.73	12,210.00	6,326.35	89.53	407,603.70	729,948.64	32.119116	-103.724103
18,500.00	90.00	359.73	12,210.00	6,426.35	89.06	407,703.70	729,948.17	32.119391	-103.724103
18,600.00	90.00	359.73	12,210.00	6,526.35	88.59	407,803.70	729,947.69	32.119666	-103.724103
18,700.00	90.00	359.73	12,210.00	6,626.35	88.11	407,903.69	729,947.22	32.119941	-103.724102
18,800.00	90.00	359.73	12,210.00	6,726.35	87.64	408,003.69	729,946.75	32.120216	-103.724102
18,900.00	90.00	359.73	12,210.00	6,826.35	87.17	408,103.69	729,946.27	32.120491	-103.724102
19,000.00	90.00	359.73	12,210.00	6,926.35	86.69	408,203.69	729,945.80	32.120765	-103.724101
19,100.00	90.00	359.73	12,210.00	7,026.34	86.22	408,303.69	729,945.33	32.121040	-103.724101
19,200.00	90.00	359.73	12,210.00	7,126.34	85.75	408,403.69	729,944.85	32.121315	-103.724101
19,300.00	90.00	359.73	12,210.00	7,226.34	85.27	408,503.69	729,944.38	32.121590	-103.724101
19,400.00	90.00	359.73	12,210.00	7,326.34	84.80	408,603.69	729,943.91	32.121865	-103.724100
19,500.00	90.00	359.73	12,210.00	7,426.34	84.33	408,703.68	729,943.43	32.122140	-103.724100
19,505.50	90.00	359.73	12,210.00	7,431.84	84.30	408,709.18	729,943.41	32.122155	-103.724100
PBHL &	LTP @ 19506'	' MD, 330' FNI	L, 330' FEL						
19,505.51	90.00	359.73	12,210.00	7,431.85	84.30	408,709.19	729,943.41	32.122155	-103.724100

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 25-T25S-R31E

Well: Big Sinks Draw 25-24 Fed Com 734H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 734H

RKB @ 3366.70ft RKB @ 3366.70ft

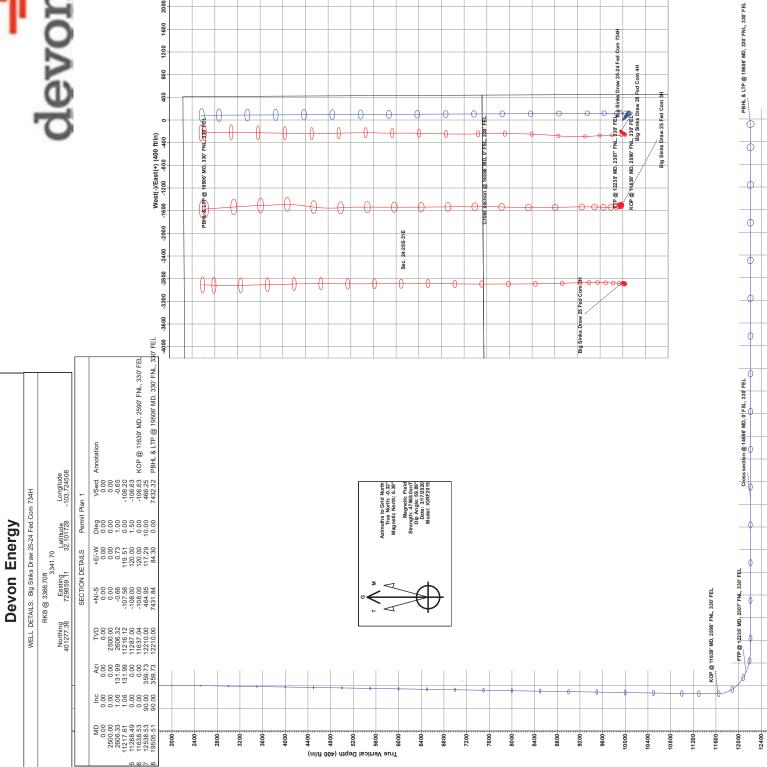
Grid

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 - Big Sinks Draw 2 - plan misses target		0.00 2.32ft at 0.00	0.00 oft MD (0.00	7,431.85 TVD, 0.00 N,	84.30 0.00 E)	408,709.19	729,943.41	32.122155	-103.724100

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
11,638.53	11,637.04	-108.00	120.00	KOP @ 11639' MD, 2590' FNL, 330' FEL
12,235.00	12,131.46	175.42	118.66	FTP @ 12235' MD, 2307' FNL, 330' FEL
14,556.00	12,210.00	2,482.40	107.73	Cross section @ 14556' MD, 0' FSL, 330' FEL
19,505.50	12,210.00	7,431.84	84.30	PBHL & LTP @ 19506' MD, 330' FNL, 330' FEL



+8000



> Draw 25-24 Fed Fed Com 4H

3300 3600 3900 4200 4500 Vertical Section at 0.65° (300 ft/in)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP NMLC0062300 LEASE NO.: LOCATION: Section 25, T.25 S., R.31 E., NMPM Lea County, New Mexico **COUNTY:** WELL NAME & NO.: Big Sinks Draw 25-24 Fed Com 733H **SURFACE HOLE FOOTAGE:** 2483'/N & 1720'/E 330'/N & 1650'/E BOTTOM HOLE FOOTAGE Big Sinks Draw 25-24 Fed Com 734H WELL NAME & NO.: SURFACE HOLE FOOTAGE: 2482'/N & 450'/E **BOTTOM HOLE FOOTAGE** 330'/N & 330'/E Big Sinks Draw 25-24 Fed Com 831H WELL NAME & NO.: 2484'/N & 1015'/W **SURFACE HOLE FOOTAGE:** 330'/N & 1300'/W **BOTTOM HOLE FOOTAGE** COATYes ☑ No H2S Secretary R-111-P None Potash Cave/Karst Potential • Low Medium High Cave/Karst Potential Critical Other Variance None None Flex Hose

A. HYDROGEN SULFIDE

Special Requirements

Water Disposal

Wellhead

Other

Other

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.

Multibowl

☑ COM

☐ Capitan Reef

▼ Cement Squeeze

Both

 \square WIPP

□ Unit

Pilot Hole

Conventional

☐ 4 String Area

Fluid Filled

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1100 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

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

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

C. PRESSURE CONTROL

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

Page 2 of 9

Option 1:

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

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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.

Page 9 of 9



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

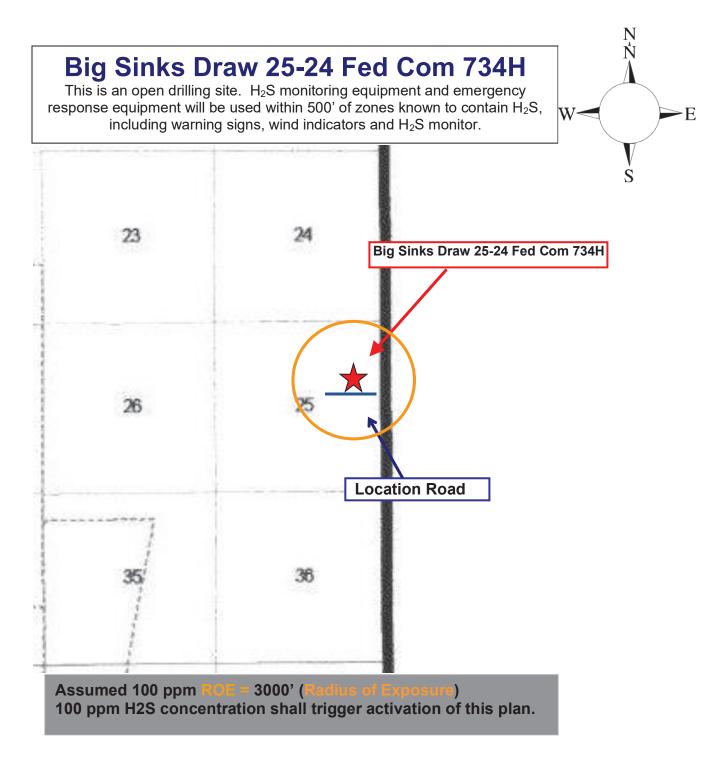
Hydrogen Sulfide (H₂S) Contingency Plan

For

Big Sinks Draw 25-24 Fed Com 734H

Sec-25 T-25S R-31E 2482' FNL & 450' FEL LAT. = 32.1017275' N (NAD83) LONG = 103.7245075' 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 H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

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

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

- Bell nipple
- 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 H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

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

6. Communication:

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

7. Well testing:

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

Devon En	ergy Corp. Company Call List				
Drilling Su	pervisor – Basin – Mark Kramer		405-823-4796		
EHS Profe	ssional – Laura Wright		405-439-8129		
Agonov	Call List				
Agency	Call List				
<u>Lea</u>	Hobbs				
County	Lea County Communication Authority		393-3981		
<u>(575)</u>	State Police	392-5588			
	City Police		397-9265		
	Sheriff's Office		393-2515		
	Ambulance		911		
	Fire Department	397-9308			
	LEPC (Local Emergency Planning Comm	393-2870			
	NMOCD		393-6161		
	US Bureau of Land Management	393-3612			
Eddy	Carlsbad				
County	State Police	885-3137			
<u>(575)</u>	City Police	885-2111			
	Sheriff's Office	887-7551			
	Ambulance	911			
	Fire Department	885-3125			
	LEPC (Local Emergency Planning Comm	887-3798			
	US Bureau of Land Management	887-6544			
	NM Emergency Response Commission (S	(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				
	Wild Well Control		(281) 784-4700		
	Cudd Pressure Control	(915) 699- 0139	(915) 563-3356		
	Halliburton	<u>-</u>	(575) 746-2757		
	B. J. Services		(575) 746-3569		
Give	Native Air – Emergency Helicopter – Hobl	(575) 392-6429			
GPS	Flight For Life - Lubbock, TX	(806) 743-9911			
position:	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) 364-43 NOAA – Website - www.nhc.noaa.gov				

