SECRETARY CONSERVATION

CONFIDENTIAL

MAY 1 1 2015

ATS-14-1059

Form 3160-3 (August 2007)

UNITED STATES

LICH CAVEKARST DEPARTMENT OF THE INTERIOR

RECEIVED

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

- 5. Lease Serial No. SL: NM015881, Lat: NM129730,

BUREAU OF LAND MAN						NM0415177, BL: N	
APPLICATION FOR PERMIT TO	DRILL	OR RE	ENTER	0.	ti Indian, Ali	ottee or Tribe N	ame
la. Type of Work: X DRILL	REENT	TER				Agreement, Na	ime and No.
1b. Type of Well: X Oil Well Gas Well Other	X	Single Zor	ne Multiple Zon		Lease Name	and Well No. 14-23 Fed Coi	m 2H
2. Name of Operator Devon Energy Production Company, L.P.	-		<u> </u>		API Well No		43101
3a. Address	3b. Pho	one No. (inc	:lude area code)	10.	Field and Po	ol, or Explorator	
333 West Sheridan Avenue Oklahoma City, Oklahoma 73102		4	105-552-6558		Getty	Bone Spring	(27470)
4. Location of well (Report location clearly and In accordance with At surface NWSW, 1350' FSL & 966' FWL, Unit L, 11-20 At proposed prod. zone SWSW, 330' FSL & 850' FWL, Unit L,	S-29E	PP: 97	ents.*) 5' FSL & 1600' FWL	SL La	Sec.,T.,R.,M : 11-20S-29 t: 14-20S-29 :: 23-20S-29	E E	Survey or Area
 Distance in miles and direction from the nearest town or post office Approximately 15 miles NE of Carlsbad, New Mexico 	:e*			12.	. County or Pa		13. State New Mexico
15. Distance from proposed* location to nearest property or lease line, ft. See attached to (Also to nearest drlg. unit line, if any)	map	SL: NM015 160 Ac, L:	f acres in lease 881-840 Ac, Lat: NM129730- at: NM0415177-160 Ac, BL: VM129731-1000 Ac	17. Spacing	g Unit dedicate	320 Acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	пар		osed Depth 497' MD / 8220' TVD	20. BLM/ E	BIA Bond No.	on file 04/NMB-00086)1
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Aprox	ximate date work will sta	rt*	23. Estima	led duration	
3301.8' GL			upon approval			45 Day	s
		24. Attac	chments				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 		ne s	 der No. 1 shall be attached. Bond to cover the operator item 20 above). Operator certification. Such other site specification. 	rations unless	s covered by e	-	
25. Signature Kinda Good	Name (Printed/Ty _i	Linda Go	od		Date 8//2	3/2014
Regulatory Compliance Specialist			,			,	
Approved By (Signature/s/George MacDonell	Name (Printed/Ty _i	ned)		- 1	Date MAY	6 2015
Title FIELD MANAGER	Office	CA	RLSBAD FII	ELD OI	FICE		
Application approval does not warrant or certify that the applicant conduct operations thereon. Conditions of approval, if any, are attached.			VAL FOR TWO		_	which would er	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mal States any false, fictitious or fraudulent statements or representations as					make to any	department or	agency of the United

(Continued on page 2)

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS

AND SPECIAL STIPULATIONS

ATTACHED

5/19/15

*(Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

District.1
16.25 N. French Dr., Hobbs, NM 48.249
Phone: (575) 393-6161 Fax: (575) 393-41720
District III
311 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
000 Rio Birazos Road, Aztec, NM 3*410
Phone: (505) 334-61*8 Fax: (505) 334-61*0
District IV
1220 S. St. Francis Dr., Santa Fe, NM 3*505
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

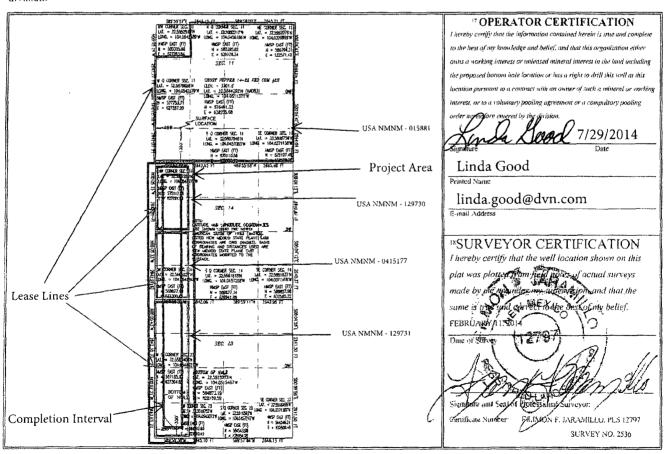
☐ AMENDED REPORT

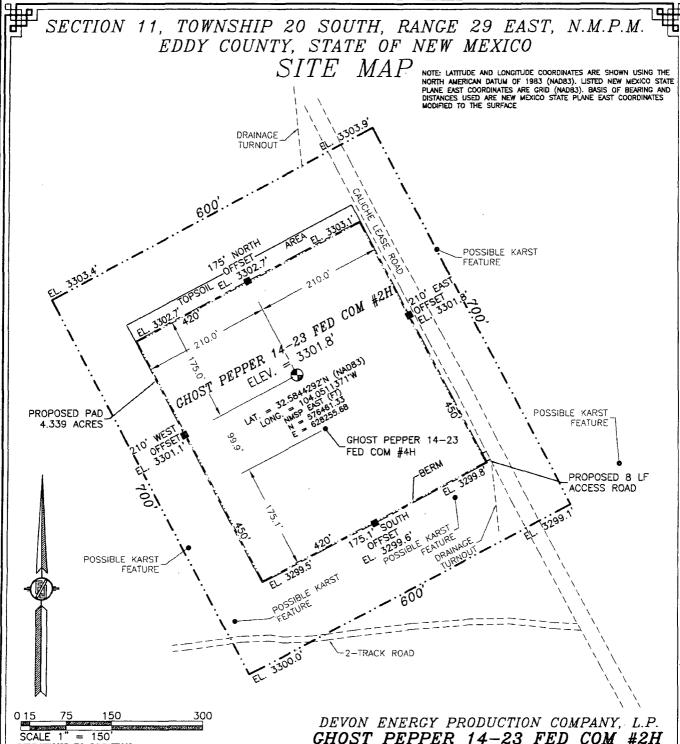
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015 - 43	27470 27470	Getty; Bone Spring	
314829		operty Name ER 14-23 FED COM	⁴ Well Number 2H
OGRID No.	, O ¹	perator Name	" Elevation
6137	DEVON ENERGY PRO	DDUCTION COMPANY, L.P.	3301.8

					[™] Surface	Location			
UL or lot no. L	Section 11	Township 20 S	Range 29 E	Lot Idn	Feet from the 1350	North/South line SOUTH	Feet from the 966	East/West line WEST	County EDDY
	•		" Bo	ttom Ho	le Location It	f Different From	n Surface	•	
UL or lot no. M	Section 23	Township 20 S	Range 29 E	Lot Idn	Feet from the	North/South line SOUTH	Feet from the 850	East/West line WEST	County EDDY
Dedicated Acres	s 15 Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

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.





SCALE 1" = 150'
DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF US HIGHWAY 62-180 (HOBBS

FROM THE INTERSECTION OF US HIGHWAY 62-180 (HOBBS HIGHWAY) AND CR 238 (BURTON FLAT ROAD) ABOUT 1/2 MILE EAST OF MILE MARKER 49 ON US HIGHWAY 62-180 GO NORTH ON CR 238 2.05 MILES TO WHERE PAVEMENT ENDS, CONTINUE NORTH ON CALICHE LEASE ROAD 1.85 MILES, SITE IS ON THE LEFT.

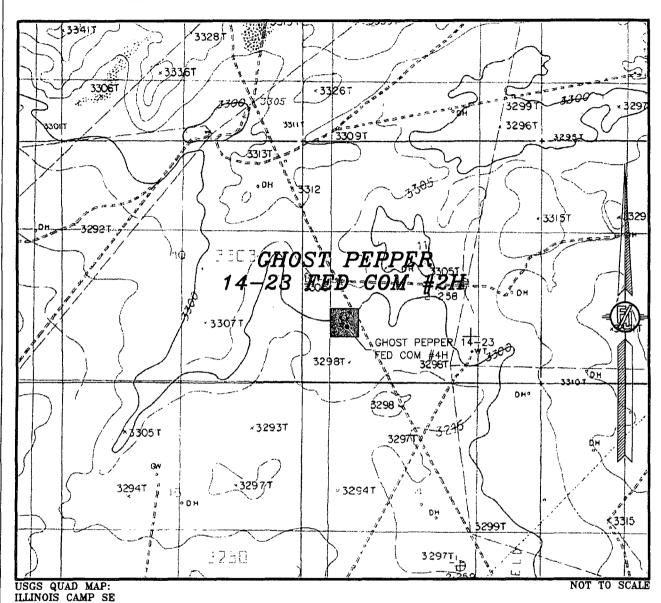
DEVON ENERGY PRODUCTION COMPANY, L.P.
GHOST PEPPER 14-23 FED COM #2H
LOCATED 1350 FT. FROM THE SOUTH LINE
AND 966 FT. FROM THE WEST LINE OF
SECTION 11, TOWNSHIP 20 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 11, 2014

SURVEY NO. 2536

MADRON SURVEYING, INC. 301 SOUTH CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.

GHOST PEPPER 14-23 FED COM #2H

LOCATED 1350 FT. FROM THE SOUTH LINE

AND 966 FT. FROM THE WEST LINE OF

SECTION 11, TOWNSHIP 20 SOUTH,

RANGE 29 EAST, N.M.P.M.

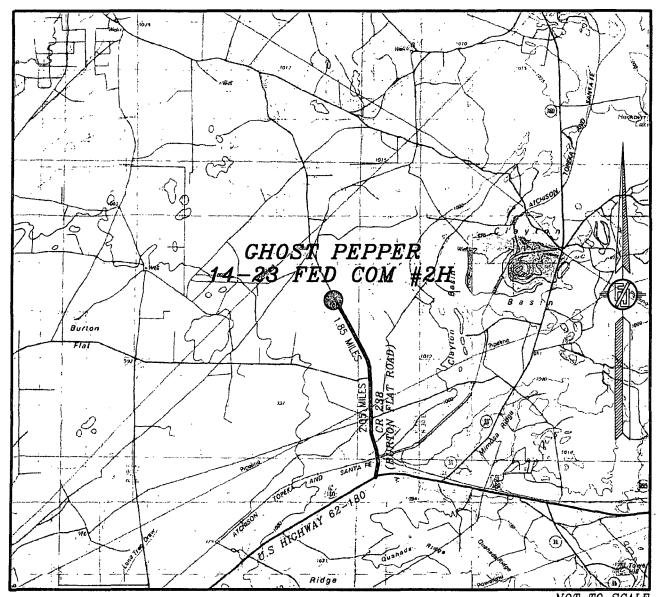
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 11, 2014

SURVEY NO. 2536

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



NOTTO

DEVON ENERGY PRODUCTION COMPANY, L.P. GHOST PEPPER 14-23 FED COM #2H LOCATED 1350 FT. FROM THE SOUTH LINE AND 966 FT. FROM THE WEST LINE OF SECTION 11, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 11, 2014

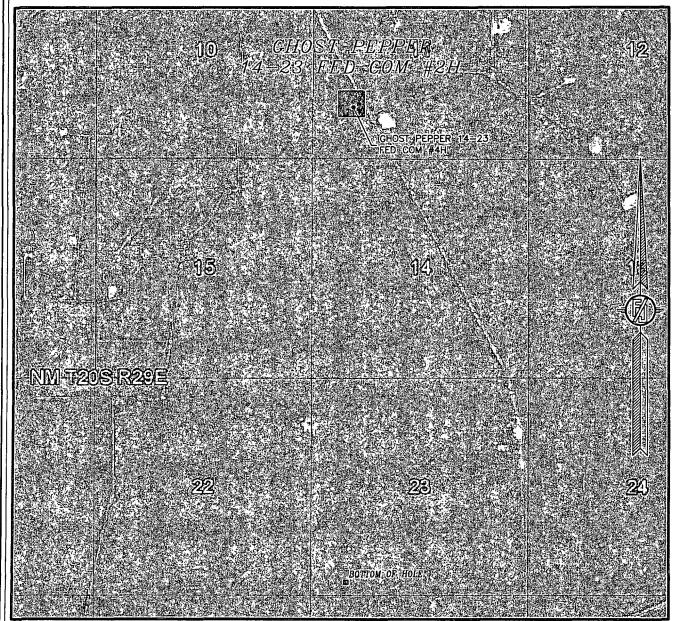
DIRECTIONS TO LOCATION

PROM THE INTERSECTION OF US HIGHWAY 62-180 (HOBBS HIGHWAY) AND CR 238 (BURTON FLAT ROAD) ABOUT 1/2 MILE EAST OF MILE MARKER 49 ON US HIGHWAY 62-180 GO NORTH ON CR 238 2.05 MILES TO WHERE PAVEMENT ENDS, CONTINUE NORTH ON CALICHE LEASE ROAD 1.85 MILES, SITE IS ON THE LEFT.

SURVEY NO. 2536

MADRON SURVEYING, INC. 301 SOUTH CARAL CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

GHOST PEPPER 14-23 FED COM #2H

LOCATED 1350 FT. FROM THE SOUTH LINE

AND 966 FT. FROM THE WEST LINE OF

SECTION 11, TOWNSHIP 20 SOUTH,

RANGE 29 EAST, N.M.P.M.

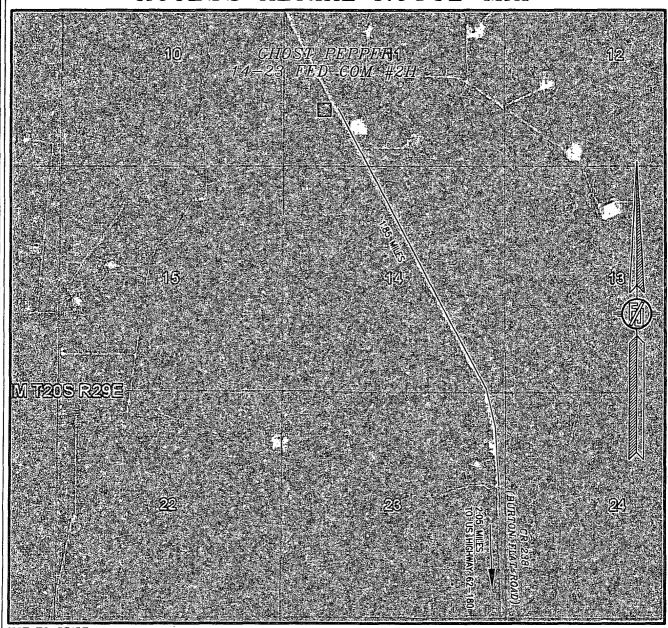
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 11, 2014

SURVEY NO. 2536

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO ACCESS AERIAL ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

GHOST PEPPER 14-23 FED COM #2H

LOCATED 1350 FT. FROM THE SOUTH LINE

AND 966 FT. FROM THE WEST LINE OF

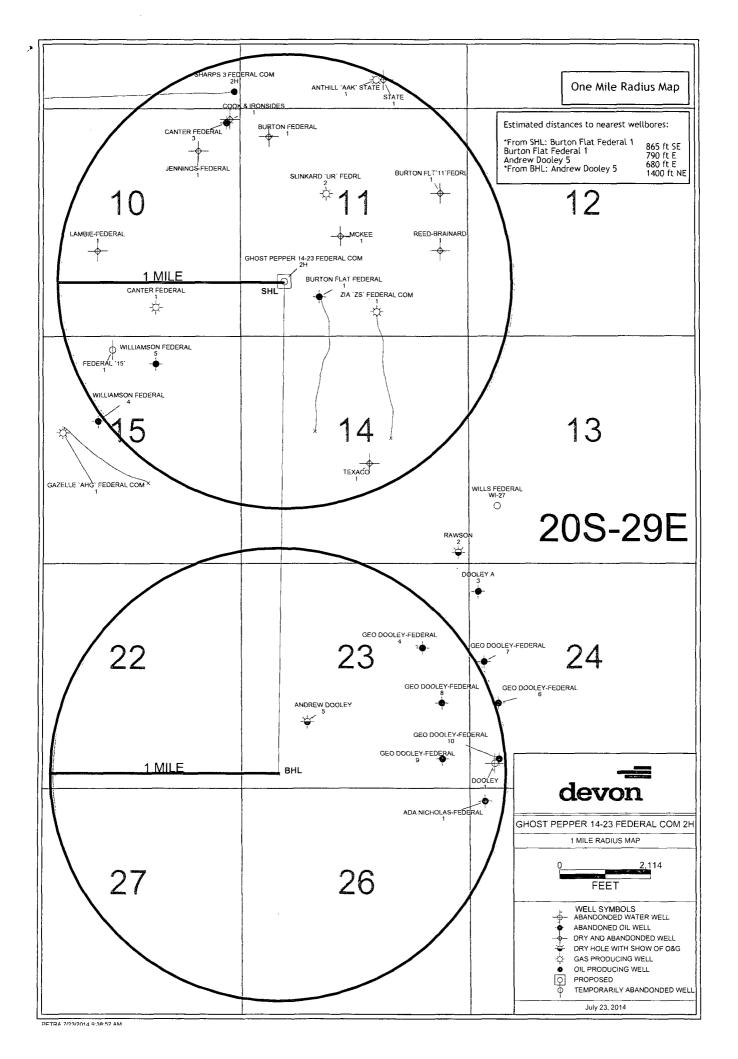
SECTION 11, TOWNSHIP 20 SOUTH,

RANGE 29 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 11, 2014

SURVEY NO. 2536
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO



1. Geologic Name of Surface Formation: Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:

a.	Fresh Water	90			
b.	Rustler	174		Ва	rren
c.	Salado	474		Ва	rren
d.	Base of Salt	1324		Ва	rren
e.	Capitan	1734		Ва	rren
f.	Capitan Base	3249		Ва	rren
g.	Delaware	3514		Oi	l / Gas
h.	1st Bone Spring Lime	5979		Oi	l / Gas
i.	1st Bone Spring Sand	7180		Oi	l / Gas
j.	2nd Bone Spring Lime	7380		Oi	I / Gas
k.	2nd Bone Spring Sand	7994		Oi	I / Gas
١,	3rd Bone Spring Lime	8274		Oi	l / Gas
	Total Depths	8220'	TVD	19497	MD

3. Pressure Control Equipment:

The BOP system used to drill the 17-1/2" hole will consist of a **20" 2M** Annular preventer. The BOP system will be tested as a **2M** system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the first and second intermediate hole sections. The BOP system will be tested as a **3M** system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoes.

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

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed**. The line will be kept as straight as possible with minimal turns.

AC

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

sec COA

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
26"	0 - 200 37	5` 20"	0-200375	, 94	втс	J-55	5.56	22.54	74.57
17-1/2"	200-1375′	13-3/8"	0-1375′	68	втс	HCK-55	2.73	4.83	12.19
12-1/4"	1375-3500′	9-5/8"	0-3500'	40	LTC	P-110	1.64	2.52	3.71
8-3/4"	3500-19497'	5-1/2"	0-19497'	17	DWC	RYP-110	1.95	2.77	1.62

Mixed Production String Option (7" X 5-1/2")

8-3/4"	3500-7582'	7"	0-7582'	29	втс	P-110	2.40	3.16	2.26
8-3/4"	7582-19497'	5-1/2"	7582-19497'	17	DWC	RYP-110	1.94	2.77	2.70

Casing Notes:

- All casing is new and API approved
- Mixed Production String Crosses over at KOP

Maximum Lateral TVD: 8220'

5. Proposed mud Circulations System:

See COA

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-200375	8.4-9.0	30-34	N/C	FW
200-1375′	10.0-10.1	28-32	N/C	Brine
1375-3500′	8.6-9.0	28-32	N/C	FW
3500-19497'	8.6-9.0	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

Cementing Table: 6.

	String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
ee OA	20" Surface Casing	520	14.8	6.34	1.34	Tail	Class C Cement + 1% Calcium Chloride + 64.2% Fresh Water
	13-3/8" 1 st	620	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	Intermediate Casing	550	14.8	6.34	1.33	Tail	Class C Cement + 1% Calcium Chloride + 64.2% Fresh Water
	9-5/8" 2 nd	590	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	Intermediate	430	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
į		470	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
see OA	9-5/8" 2 nd	220	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
COA	Intermediate Casing Two					DV Tool	at 1425ft
	Stage Option	170	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
		140	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
SEC.	5-1/2"	450	10.4	3.13	ار 16.8	Lead	Tuned Light Cement® + 0.125 lb/sk + 71.7% Fresh Water
COA	Production Casing	3210	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
see	7 x 5-1/2" Production	270	10.4	3.13	ゴ 16.8 ノ	Lead	Tuned Light Cement® + 0.125 lb/sk + 71.7% Fresh Water
SEC	Casing Option	3210	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

0' Surface @ Intermediate I 0'

3000' 50' above Capitan Reel @ 1785'
Drilling Plan Intermediate II @ Production @

Notes:

- Cement volumes Surface 100%, Intermediate I 75%, Intermediate II 50%, Pilot Hole 10% and Production Casing based on at least 25% excess.
- Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data
- If lost severe circulation is encountered while drilling the 2nd intermediate, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

7. Logging, Coring, and Testing Program:

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated, a procedure, equipment to be used, and safety measures will be provided via sundry notice to the BLM.
- c. Resistivity and porosity logs are planned below the intermediate casing point. Stated logs run will be named in the Completion Report and submitted to the BLM.
- d. No coring program is planned
- e. Additional Testing will be initiated subsequent to setting the production casing. Specific intervals will be targeted based on log evaluation (if applicable), geological sample shows, and drill stem tests.

8. Potential Hazards:

see COA

- a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area, and none is anticipated to be encountered. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation being used to drill this well. Estimated BHP: 3699 psi, and estimated BHT: 140 degrees.
- b. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production string is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

9. Anticipated Starting Date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 20 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

DEVON ENERGY

Project: Eddy County, NM (NAD-83) Site: Ghost Pepper 14-23 Fed Com

Well: 2H Wellbore: 2H OH Design: Plan #1

1500

2250

3000-

3750

4500-

5250-

6000

6750-

7500

8250

PROJECT DETAILS: Eddy County, NM (NAD-83)

Geodetic System: US State Plane 1983 Datum: North American Datum 1983

Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone



Azimuths to Grid North True North: -0.15° Magnetic North: 7.42°

Magnetic Field Strength: 48438.0snT Dip Angle: 60.34° Date: 7/29/2014 Model: BGGM2013



devon



TVD +N/-S +E/-W Northing Latitude Longitude TGT 1 (GP 14-23 FC 2H) 8155.00 -1679.93 -13.93574781.40 628241.75 32° 34' 47,322 N 104° 3' 4.309 W TGT 2 (GP 14-23 FC 2H) 8170.00 -7853.60 -65.12 568607.73 32° 33' 46.232 N 104° 3' 5.098 W 628190.56 Base of Salt PBHL (GP 14-23 FC 2H) 8220.00 104° 3' 5.575 W -11588.14 -96.09 564873.19 628159.59 32° 33' 9.278 N Capitan SECTION DETAILS

> Sec MD Inc TVD +N/-S +E/-W VSect Azi Dleg TFace Annotation 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 7582.04 0.00 0.00 7582.04 0.00 0.00 0.00 0.00 0.00 KOP 10° DLS 8482.04 90.00 180.48 8155.00 -572.94-4.75 10.00 180.48 572.96 LP - 8482.04' MD - 8155' TVD 9589.07 90.00 180.48 8155.00 -1679.93 -13.93 2° DLS 0.00 1679.99 0.00 89.86 9596.03 180.48 8155.01 -1686.89 -13.992.00 180.00 1686.95 Hold 15762.97 89.86 180.48 8170.00 -7853.60 -65.120.00 0.00 7853.87 2° DLS 15794.49 89.23 180.48 8170.25 -7885.12 -65.38 2.00 180.00 7885.39 Hold 19497.97 89.23 180.48 8220.00 -11588.14 -96.09 0.00 0.00 11588.54 TD - 19497.97' MD - 8220' TVD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle
174.00	174.00	Rustler	0.00
474.00	474.00	Salado	0.00
1324.00	1324.00	Base of Salt	0.00
1734.00	1734.00	Capitan	0.00
3249.00	3249.00	Capitan Base	0.00
3514.00	3514.00	Delaware	0.00
5979.00	5979.00	1st BS Lime	0.00
7180.00	7180.00	1st BS Sand	0.00
7380.00	7380.00	2nd BS Lime	0.00
7994.00	8041.76	2nd BS Sand	0.00

1st BS Lime

Capitan Base

Delaware

1st BS Sand 2nd BS Lime

2nd BS Sand

750

KOP 10° DLS 2° DLS Hold

1500

LP - 8482.04' MD - 8155' TVD

2250 3000 3750

4500 5250

6000 Vertical Section at 180.48° (1500 usft/in)

6750 7500

2° DLS

8250

Hold

9000

DipDir

9750

10500

PBHL (GP 14-23 FC 2H)

19498

Plan: Plan #1 (2H/2H OH) Ghost Pepper 14-23 Fed Com Created By: Brady Deaver Date: 10:53, July 29 2014

8220

PBHL (GP 14-23 FC 2H)

West(-)/East(+) (2000 usft/in)

2° DLS Hold

2° DLS

Hold

1000

_ KOP 10° DLS

2000

-1000

-2000

-3000

-4000

-5000

-6000

-7000

-8000

-9000

--10000

--11000

12000

South(-)/North(+) (2000 usft/in)

Date: Date: Approved:

LEAM DRILLING SYSTEMS LLC 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7577, Fax 936/756-7595

DEVON ENERGY

Eddy County, NM (NAD-83) Ghost Pepper 14-23 Fed Com 2H

2H OH

Plan: Plan #1

Standard Planning Report

29 July, 2014

Planning Report

EDM 5000.1 Single User Db **DEVON ENERGY**

Eddy County, NM (NAD-83)

Ghost Pepper 14-23 Fed Com

2Н 2H OH Wellbore

TVD Reference:

MD Reference

Survey Calculation Method:

Well 2H

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Grid

Minimum Curvature

Eddy County, NM (NAD-83)

Map System:

US State Plane 1983

Mean Sea Level

Geo Datum: Map Zone:

North American Datum 1983 New Mexico Eastern Zone

Ghost Pepper 14-23 Fed Com

Site bet + # tri-Site Position:

Northing:

576,775.85 usft

Latitude:

From:

Well Position

Map

Easting:

628,909.08 usft

Longitude:

Position Uncertainty:

0.00 usft Slot Radius: 13-3/16 "

Grid Convergence:

104° 2' 56.447 W

0.15°

2H, 2nd BS SS

+N/-S +E/-W -314.52 usft -653.40 usft

Northing: Easting:

576,461.33 usft 628,255.68 usft

Latitude: Longitude:

32° 35' 3.945 N 104° 3' 4.094 W

Position Uncertainty

0.00 usft

Wellhead Elevation:

3,325.80 usft

7.58

Ground Level:

3,301.80 usft

48,438

2H OH

7/29/2014

60.34

BGGM2013

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

0.00

0.00

0.00

180.48

Plan Sections (g Measured) Depth in (usft)	clination	Azimuth	Vertical Depth (usft)	+N/S (usft)	+E/-W (usft)	Dogleg Rate (3/100usft)	Build Rate (/100usft)	Turn Rate /100usft)) TEO: - (⁽ 1)	-Targetisk
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,582.04	0.00	0.00	7,582.04	0.00	0.00	0.00	0.00	0.00	0.00	
8,482.04	90.00	180.48	8,155.00	-572.94	-4.75	10.00	10.00	-19.95	180.48	
9,589.07	90.00	180.48	8,155.00	-1,679.93	-13.93	0.00	0.00	0.00	0.00	TGT 1 (GP 14-23 FC
9,596.03	89.86	180.48	8,155.01	-1,686.89	-13.99	2.00	-2.00	0.00	180.00	
15,762.97	89.86	180.48	8,170.00	-7,853.60	-65.12	0.00	0.00	0.00	0.00	TGT 2 (GP 14-23 FC
15,794.49	89.23	180.48	8,170.25	-7,885.12	-65.38	2.00	-2.00	0.00	180.00	
19.497.97	89.23	180.48	8.220.00	-11.588.14	-96.09	0.00	0.00	0.00	0.00	PBHL (GP 14-23 FC 2

Planning Report

EDM 5000.1 Single User Db

DEVON ENERGY

Eddy County, NM (NAD-83)

2H 2H OH

Ghost Pepper 14-23 Fed Com

Plan #1

Local Co-ordinate Reference: TVD:Reference: MD:Reference: North:Reference: Survey Calculation:Method:

Well 2H

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft Grid

Planned Survey 3 15	DEPOSITION NOT THE PERSON AS	ELMS-ETTER EMB DESCRIPTION	COMMUNICATION OF THE	PERSONAL PROPERTY OF LUNCOTO	AND DESCRIPTION OF THE PARTY OF	THE PROPERTY OF THE PROPERTY OF THE PARTY OF	NAMES OF THE PERSON OF THE PERSON NAMED IN	TO PERSONAL THE PERSONAL PROPERTY.	Cantination Secure Section (1992)
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174.00	0.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0,00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
474.00	0.00	0.00	474.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00
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500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00 0.00	0.00 0.00	800.00 900.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00
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1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,324.00	0.00	0.00	1,324.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,200.00	0.00	0:00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	3,249.00	0.00	0.00	0.00	0.00	0.00	0.00
Capitan Base 3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
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Planning Report

EDM 5000.1 Single User Db

DEVON ENERGY

Eddy County, NM (NAD-83)

Ghost Pepper 14-23 Fed Com

Database: EDM 50
Company: Eddy Co
Project: Eddy Co
Site: Ghost P
Well: 2H
Wellbore: 2H OH
Design: Plan #1 Plan #1 Local Co-ordinate Reference TVD Reference MD Reference ... North Reference: Survey Calculation Method:

Well 2H

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft Grid

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Planning Report

EDM 5000.1 Single User Db

DEVON ENERGY

Eddy County, NM (NAD-83)

Ghost Pepper 14-23 Fed Com

Oatabase: Company: Project: Site: Well Wellbore: Design: 2H OH Plan #1

Local Co-ordinate Reference:
TVD:Reference:
MD:Reference:
North:Reference:
Survey:Calculation:Method: Survey Calculation Method:

Well 2H

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft Grid

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2.041.76					-145.80					
### 270 BS Sand ### 8.050 00	0,000.00	41,00	100.40	7,000.51	140.00	-1.21	145.00	10.00	10.00	0.00
### 270 BS Sand ### 8.050 00	8 041 76	45 97	180 48	7 994 00	-174 74	-1 45	174 75	10.00	10.00	0.00
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8_185_00_ 58_80	8,050.00	46.80	180.48	7,999.68	-180.71	-1.50	180.71	10.00	10.00	0.00
8_185_00_ 58_80	8.100.00	51.80	180.48	8.032.28	-218.60	-1.81	218 60	10.00	10 00	0.00
8,200,00 61,80 180,48 8,108,87 -302,16 -2,51 302,17 10,00 10,00 0,00 8,250,00 66,80 180,48 8,108,65 -347,20 -2,88 347,21 10,00 10,00 0,00 8,350,00 76,80 180,48 8,139,85 -342,7 39,395 10,00 10,00 10,00 0,00 8,400,00 81,80 180,48 8,149,81 -442,07 -3,67 442,08 10,00 10,00 0,00 8,450,00 86,80 180,48 8,149,13 -491,18 4,07 491,20 10,00 10,00 10,00 0,00 8,450,00 86,80 180,48 8,154,10 -540,92 4,49 540,93 10,00 10,00 0,00 8,450,00 86,80 180,48 8,155,00 -572,94 4,75 572,96 10,00 10,00 0,00 8,600,00 90,00 180,48 8,155,00 -592,94 4,75 580,92 0,00 0,00 0,00 8,600,00 90,00 180,48 8,155,00 -590,89 -5,73 690,92 0,00 0,00 0,00 8,600,00 90,00 180,48 8,155,00 -590,89 -5,73 690,92 0,00 0,00 0,00 8,600,00 90,00 180,48 8,155,00 -590,89 -5,73 690,92 0,00 0,00 0,00 9,00 180,48 8,155,00 -590,89 -5,73 690,92 0,00 0,00 0,00 9,00 180,48 8,155,00 -590,89 -5,73 690,92 0,00 0,00 0,00 9,00 180,48 8,155,00 -590,89 -5,73 690,92 0,00 0,00 0,00 9,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 9,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,300,00 90,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,300,00 90,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,300,00 90,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,390,00 90,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,390,00 90,00 180,48 8,155,00 -11,990,88 -9,05 1,990,92 0,00 0,00 0,00 0,00 9,390,00 90,00 180,48 8,155,00 -11,990,88 -9,05 1,990,90 0,00 0,00 0,00 0,00 0,00 0,00										
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LP - 8482.04 MD - 8155*TVD	8 482 04	90.00	180 48	8 155 00	-572 94	.4 75	572 96	10.00	10.00	0.00
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10,000.00 89.86 180.48 8,155.99 -2,090.84 -17,34 2,090.92 0.00 0.00 0.00 10,100.00 89.86 180.48 8,156.23 -2,190.84 -18.17 2,190.92 0.00 0.00 0.00 10,200.00 89.86 180.48 8,156.48 -2,290.84 -19.00 2,290.92 0.00 0.00 0.00 10,300.00 89.86 180.48 8,156.96 -2,490.83 -19.82 2,390.92 0.00 0.00 0.00 10,400.00 89.86 180.48 8,157.91 -2,590.83 -21.48 2,590.92 0.00 0.00 0.00 10,500.00 89.86 180.48 8,157.95 -2,690.82 -22.31 2,690.91 0.00 0.00 0.00 10,700.00 89.86 180.48 8,157.69 -2,790.82 -23.14 2,790.91 0.00 0.00 0.00 10,700.00 89.86 180.48 8,157.94 -2,890.81 -23.77 2,890.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.18 <th>9,900.00</th> <td>89.86</td> <td>180.48</td> <td>8,155.75</td> <td>-1,990.85</td> <td>-16.51</td> <td>1,990.92</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	9,900.00	89.86	180.48	8,155.75	-1,990.85	-16.51	1,990.92	0.00	0.00	0.00
10,100.00 89.86 180.48 8,156.23 -2,190.84 -18.17 2,190.92 0.00 0.00 0.00 10,200.00 89.86 180.48 8,156.48 -2,290.84 -19.00 2,290.92 0.00 0.00 0.00 10,300.00 89.86 180.48 8,156.72 -2,390.83 -19.82 2,390.92 0.00 0.00 0.00 10,400.00 89.86 180.48 8,156.96 -2,490.83 -20.65 2,490.92 0.00 0.00 0.00 10,500.00 89.86 180.48 8,157.21 -2,590.83 -21.48 2,590.92 0.00 0.00 0.00 10,600.00 89.86 180.48 8,157.45 -2,690.82 -22.31 2,690.91 0.00 0.00 0.00 10,700.00 89.86 180.48 8,157.94 -2,890.81 -23.97 2,890.91 0.00 0.00 0.00 10,900.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.42 <th>10,000.00</th> <td>89.86</td> <td>180.48</td> <td>8,155.99</td> <td>-2,090.84</td> <td></td> <td></td> <td>0.00</td> <td>0.00</td> <td></td>	10,000.00	89.86	180.48	8,155.99	-2,090.84			0.00	0.00	
10,200.00	1									
10,300.00 89.86 180.48 8,156.72 -2,390.83 -19.82 2,390.92 0.00 0.00 0.00 0.00 10,400.00 89.86 180.48 8,156.96 -2,490.83 -20.65 2,490.92 0.00 0.00 0.00 0.00 10,500.00 89.86 180.48 8,157.21 -2,590.83 -21.48 2,590.92 0.00 0.00 0.00 0.00 10,600.00 89.86 180.48 8,157.45 -2,690.82 -22.31 2,690.91 0.00 0.00 0.00 0.00 10,700.00 89.86 180.48 8,157.69 -2,790.82 -23.14 2,790.91 0.00 0.00 0.00 10,800.00 89.86 180.48 8,157.94 -2,890.81 -23.97 2,890.91 0.00 0.00 0.00 0.00 10,900.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.42 -3,090.81 -25.63 3,090.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.66 -3,190.81 -25.63 3,090.91 0.00 0.00 0.00 11,100.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,158.69 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,300.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00 0.00 0.00	1	22.00		0,.00.20	-,	10.17	2,100.02	0.00	5.00	0.00
10,300.00 89.86 180.48 8,156.72 -2,390.83 -19.82 2,390.92 0.00 0.00 0.00 10,400.00 89.86 180.48 8,156.96 -2,490.83 -20.65 2,490.92 0.00 0.00 0.00 10,500.00 89.86 180.48 8,157.21 -2,590.83 -21.48 2,590.92 0.00 0.00 0.00 10,600.00 89.86 180.48 8,157.45 -2,690.82 -22.31 2,690.91 0.00 0.00 0.00 10,700.00 89.86 180.48 8,157.94 -2,890.81 -23.97 2,890.91 0.00 0.00 0.00 10,800.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,158.91 <th>10,200.00</th> <td>89.86</td> <td>180.48</td> <td>8,156.48</td> <td>-2,290.84</td> <td>-19.00</td> <td>2,290.92</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	10,200.00	89.86	180.48	8,156.48	-2,290.84	-19.00	2,290.92	0.00	0.00	0.00
10,400.00 89.86 180.48 8,156.96 -2,490.83 -20.65 2,490.92 0.00 0.00 0.00 10,500.00 89.86 180.48 8,157.21 -2,590.83 -21.48 2,590.92 0.00 0.00 0.00 10,600.00 89.86 180.48 8,157.45 -2,690.82 -22.31 2,690.91 0.00 0.00 0.00 10,700.00 89.86 180.48 8,157.69 -2,790.82 -23.14 2,790.91 0.00 0.00 0.00 10,800.00 89.86 180.48 8,157.94 -2,890.81 -23.97 2,890.91 0.00 0.00 0.00 10,900.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.42 -3,090.81 -25.63 3,090.91 0.00 0.00 0.00 11,100.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,159.15 <th>10,300 00</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	10,300 00									
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10,700.00 89.86 180.48 8,157.69 -2,790.82 -23.14 2,790.91 0.00 0.00 0.00 10,800.00 89.86 180.48 8,157.94 -2,890.81 -23.97 2,890.91 0.00 0.00 0.00 10,900.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.42 -3,090.81 -25.63 3,090.91 0.00 0.00 0.00 11,100.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,158.91 -3,290.80 -27.29 3,290.91 0.00 0.00 0.00 11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 <th>i '</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	i '									
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10,800.00 89.86 180.48 8,157.94 -2,890.81 -23.97 2,890.91 0.00 0.00 0.00 10,900.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.42 -3,090.81 -25.63 3,090.91 0.00 0.00 0.00 11,100.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,158.91 -3,290.80 -27.29 3,290.91 0.00 0.00 0.00 11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	40.700.00	00.00	100 10	0.45=	0.705					
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10,900.00 89.86 180.48 8,158.18 -2,990.81 -24.80 2,990.91 0.00 0.00 0.00 11,000.00 89.86 180.48 8,158.42 -3,090.81 -25.63 3,090.91 0.00 0.00 0.00 11,100.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,158.91 -3,290.80 -27.29 3,290.91 0.00 0.00 0.00 11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	10,800.00	89.86	180.48	8,157.94	-2,890.81	-23.97	2,890.91	0.00	0.00	0.00
11,000.00 89.86 180.48 8,158.42 -3,090.81 -25.63 3,090.91 0.00 0.00 0.00 11,100.00 89.86 180.48 8,158.66 -3,190.80 -26.46 3,190.91 0.00 0.00 0.00 11,200.00 89.86 180.48 8,158.91 -3,290.80 -27.29 3,290.91 0.00 0.00 0.00 11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	10,900.00						•			
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11,200.00 89.86 180.48 8,158.91 -3,290.80 -27.29 3,290.91 0.00 0.00 0.00 11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00										
11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	11,100.00	89.86	180.48	8,158.66	-3,190.80	-26.46	3,190.91	0.00	0.00	0.00
11,300.00 89.86 180.48 8,159.15 -3,390.80 -28.12 3,390.91 0.00 0.00 0.00 11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	11 200 00	80 06	100 40	9 150 01	3 200 90	27.20	3 300 04	0.00	0.00	0.00
11,400.00 89.86 180.48 8,159.39 -3,490.79 -28.95 3,490.91 0.00 0.00 0.00 11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00										
11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	7									
11,500.00 89.86 180.48 8,159.64 -3,590.79 -29.78 3,590.91 0.00 0.00 0.00	11,400.00	89.86	180.48	8,159.39	-3,490.79	-28.95	3,490.91	0.00	0.00	0.00
	11,500.00									
11,600.00 89.86 180.48 8,159.88 -3,690.79 -30.60 3,690.91 0.00 0.00 0.00	11,600.00	89.86	180.48	8,159.88	-3,690.79					
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Planning Report

Database: EDM 5000.1 Single User Db Company: DEVON ENERGY
Project: Eddy County, NM (NAD-83)

Ghost Pepper 14-23 Fed Com

2H OH Design: Plan #1

Local/Co-ordinate Reference:
aTVD/Reference:
MD/Reference:
North/Reference:
Survey/Calculation/Method:

Well 2H

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft

Grid

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Planned Survey									
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Measured 🖓 🗀			∜Vertical (%)			Vertical .	Dogleg	Build :	Turn (1)
Depth Pilin	clination 🥒 🖟	Zimuth 🔭 🤻	> Depth	+N/-S	**E/-W.	Section 🤻 🐒	Rate 👢 🔭	Rate 7	Rate 💘 🔭 🚬
(usft)	Y (°) Y (4)	"(°)"	(usft)	(usft)	(usft)	(usft)	(°/100usft)№	100usft) 📜 🧘 (//100usft) ⊰ 🛴 🔭
		di Libera	i pod objektom k						数据 4000000000000000000000000000000000000
11,700.00	89.86	180.48	8,160.12	-3,790.78	-31.43	3,790.91	0.00	0.00	0.00
11,800.00	89.86	180.48	8,160.37	-3,890.78	-32.26	3,890.91	0.00	0.00	0.00
11,900.00	89.86	180.48	8,160.61	-3,990.77	-33.09	3,990.91	0.00	0.00	0.00
12,000.00	89.86	180.48	8,160.85	-4,090.77	-33.92	4,090.91	0.00	0.00	0.00
12,100.00	89.86	180.48	8,161.10	-4,190.77	-34.75	4,190.91	0.00	0.00	0.00
12,100.00	00,00	100.40	0,101.10	-4,130.77	-34.73	4,130.31	0.00	0.00	0.00
12,200.00	89.86	180.48	8,161.34	-4,290.76	-35.58	4,290.91	0.00	0.00	0.00
12,300.00	89.86	180.48	8,161.58	-4,390.76	-36.41	4,390.91	0.00	0.00	0.00
12,400.00	89.86	180.48	8,161,82	-4 ,490.76	-37.24	4,490.91	0.00	0.00	0.00
12,500.00	89.86	180.48	8,162.07	-4,590.75	-38.07	4,590.91	0.00	0.00	0.00
12,600.00	89.86	180.48	8,162.31	-4,690.75	-38.90	4,690.91	0.00	0.00	0.00
12,000.00	00.00	100.10	0,102.01	1,000.10	00.00	4,000.01	0.00	0.00	0,00
12,700.00	89.86	180.48	8,162.55	-4,790.74	-39.73	4,790.91	0.00	0.00	0.00
12,800.00	89.86	180.48	8,162.80	-4,890.74	-40.55	4,890.91	0.00	0.00	0.00
12,900.00	89.86	180.48	8,163.04	-4,990.74	-41.38	4,990.91	0.00	0.00	0.00
13,000.00	89.86	180.48	8,163.28	-5,090.73	-42.21	5,090.91	0.00	0.00	0.00
13,100.00	89.86	180.48	8,163.53	-5,190.73	-43.04	5,190.91	0.00	0.00	0.00
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13,200.00	89.86	180.48	8,163.77	-5,290.73	-43.87	5,290.91	0.00	0.00	0.00
13,300.00	89.86	180.48	8,164.01	-5,390.72	-44.70	5,390.91	0.00	0.00	0.00
13,400.00	89.86	180.48	8,164.26	-5,490.72	-45.53	5,490.91	0.00	0.00	0.00
13,500.00	89.86	180.48	8,164.50	-5,590.71	-46.36	5,590.91	0.00	0.00	0.00
13,600.00	89.86	180.48	8,164.74	-5,690.71	-47.19	5,690.91	0.00	0.00	0.00
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13,700.00	89.86	180.48	8,164.99	-5,790.71	-48.02	5,790.91	0.00	0.00	0.00
13,800.00	89.86	180.48	8,165.23	-5,890.70	-48.85	5,890.91	0.00	0.00	0.00
13,900.00	89.86	180.48	8,165.47	-5,990.70	-49.68	5,990.91	0.00	0.00	0.00
14,000.00	89.86	180.48	8,165,71	-6,090.70	-50.50	6.090.90	0.00	0.00	0.00
14,100.00	89.86	180.48	8,165.96	-6,190.69	-51.33	6,190.90	0.00	0.00	0.00
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14,200.00	89.86	180.48	8,166.20	-6,290.69	-52.16	6,290.90	0.00	0.00	0.00
14,300.00	89.86	180.48	8,166.44	-6,390.68	-52.99	6,390.90	0.00	0.00	0.00
14,400.00	89.86	180.48	8,166.69	-6,490.68	-53.82	6,490.90	0.00	0.00	0.00
14,500.00	89.86	180.48	8,166.93	-6,590.68	-54.65	6,590.90	0.00	0.00	0.00
14,600.00	89.86	180.48	8,167.17	-6,690.67	-55.48	6,690.90	0.00	0.00	0.00
1170000									
14,700.00	89.86	180.48	8,167.42	-6,790.67	-56.31	6,790.90	0.00	0.00	0.00
14,800.00	89.86	180.48	8,167.66	-6,890.67	-57.14	6,890.90	0.00	0.00	0.00
14,900.00	89.86	180.48	8,167.90	-6,990.66	-57.97	6,990.90	0.00	0.00	0.00
15,000.00	89.86	180.48	8,168.15	-7,090.66	-58.80	7,090.90	0.00	0.00	0,00
15,100.00	89.86	180.48	8,168.39	-7,190.65	-59.63	7,190.90	0.00	0,00	0.00
15,200.00	89.86	180.48	8,168.63	-7,290.65	-60.45	7,290.90	0.00	0.00	0.00
15,300.00	89.86	180.48	8,168.87	-7,390.65	-61.28		0.00		
15,400.00	89.86	180.48	8,169,12	-7,390.65 -7,490.64		7,390.90		0.00	0.00
				•	-62.11 62.04	7,490.90	0.00	0.00	0.00 .
15,500:00	89.86	180.48	8,169.36	-7,590.64	-62.94	7,590.90	0.00	0.00	0.00
15,600:00	89.86	180.48	8,169.60	-7,690.64	-63.77	7,690.90	0.00	0.00	0.00
15,700.00	89.86	180,48	8,169.85	-7,790.63	-64.60	7,790.90	0.00	0.00	0.00
15.762.97	89.86	180.48	8,170.00	-7,853.60	-65.12	7,853.87	0.00	0.00	0.00
2° DLS - TGT 2 (0			-,	,		.,	2.00		-,
•		•	9 470 05	7 005 40	05.00	7.005.00	2.22	0.00	2.00
15,794.49	89.23	180.48	8,170.25	-7,885.12	-65.38	7,885.39	2.00	-2.00	0.00
Hold									
15,800.00	89.23	180.48	8,170.32	-7,890.63	-65.43	7,890.90	0.00	0.00	0.00
15,900.00	89.23	180.48	8,171.67	-7,990.61	-66.26	7,990.89	0.00	0.00	0.00
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16,000.00	89.23	180.48	8,173.01	-8,090.60	-67.09	8,090.88	0.00	0.00	0.00
16,100.00	89.23	180.48	8,174.35	-8,190.59	-67.92	8,190.87	0.00	0.00	0.00
16,200.00	89.23	180.48	8,175.70	-8,290.58	-68.75	8,290.86	0.00	0.00	0.00
16,300.00	89.23	180.48	8,177.04	-8,390.56	-69.58	8,390.85	0.00	0.00	0.00
16,400.00	89.23	180.48	8,178.38	-8,490.55	-70.40	8,490.84	0.00	0.00	0.00
									1

Planning Report

Database: PEDM 5000.1 Single User Db DEVON ENERGY

Project PEDM 5000.1 Single User Db DEVON ENERGY

Eddy County, NM (NAD-83)

Ghost Pepper 14-23 Fed Com

Well PEDM 5000.1 Single User Db

Eddy County, NM (NAD-83)

Ghost Pepper 14-23 Fed Com

2H

Wellbore PEDM 5000.1 Single User Db

Design: PEDM 5000.1 Single User Db

DEVON ENERGY

Local Co-ordinate Reference:

TVD Reference:

Gactu
3326.

MD Reference:

North Reference:

Survey Calculation/Method:

Well 2

Grid
Minim

Well 2H Cactus 126: 3301.8' GL + 25' RKB @ 3326.80usft Cactus 126: 3301.8' GL + 25' RKB @

3326.80usft
Grid

Planned Survey	TRANSPORT AND TO	MOTOR PROPERTY OF THE PARTY OF	CL SAN MEMATERIAN CALIN	TO THE PARTY OF THE PARTY TO THE PARTY TO THE PARTY OF TH	PROPERTIES AND LANGE	THE PROPERTY OF THE PROPERTY O	ক্ষেণের কেন্দ্র ক্রমেন্ট্রনার জন্মকর্তৃত	TO STATE OF THE PARTY OF THE PA	THE PERSON OF PROPERTY OF
Measured			Vertical 🞉			روز Vertical	Dogleg: Jobs	Build	Türn
	clination 🏃	Azimuth	Depth	(J.+N/-S (* €)	+E/-W	Section 💮 🦠	Rate 🔩 📚	Rate	Rate
Control (usft)	(1)	(°) (°)	(usft)	(usft)	*(üsft)		(°/100üsft)	100usft) 🦠 🚉 (°	/100usft)
16,500.00	89.23	180.48	8,179.73	-8,590.54	-71.23	8,590.83	0.00	0.00	0.00
16,600.00	89.23	180.48	8,181.07	-8,690.53	-72.06	8,690.83	0.00	0.00	0.00
16,700.00	89.23	180.48	8,182.41	-8,790.51	-72.89	8,790.82	0.00	0.00	0.00
16,800.00	89.23	180.48	8,183.76	-8,890.50	-73.72	8,890.81	0.00	0.00	0.00
16,900.00	89.23	180.48	8,185.10	-8,990.49	-74.55	8,990.80	0.00	0.00	0.00
17,000.00	89.23	180.48	8,186.44	-9,090.48	-75.38	9,090.79	0.00	0.00	0.00
17,100.00	89.23	180.48	8,187.79	-9,190.46	-76.21	9,190.78	0.00	0.00	0.00
17,200.00	89.23	180.48	8,189.13	-9,290.45	-77.04	9,290.77	0.00	0.00	0.00
17,300.00	89.23	180.48	8,190.47	-9,390.44	<i>-</i> 77.87	9,390.76	0.00	0.00	0.00
17,400.00	89.23	180.48	8,191.82	-9,490.43	-78.70	9,490.75	0.00	0.00	0.00
17,500.00	89.23	180.48	8,193.16	-9,590.42	-79.52	9,590.74	0.00	0.00	0.00
17,600.00	89.23	180.48	8,194.50	-9,690.40	-80.35	9,690.74	0.00	0.00	0.00
17,700.00	89.23	180.48	8,195.85	-9,790.39	-81.18	9,790.73	0.00	0.00	0.00
17,800.00	89.23	180.48	8,197.19	-9,890.38	-82.01	9,890.72	0.00	0.00	0.00
17,900.00	89.23	180.48	8,198.53	-9,990.37	-82.84	9,990.71	0.00	0.00	0.00
18,000.00	89.23	180.48	8,199.88	-10,090.35	-83.67	10,090.70	0.00	0.00	0.00
18,100.00	89.23	180.48	8,201.22	-10,190.34	-84.50	10,190.69	0.00	0.00	0.00
18,200.00	89.23	180.48	8,202.56	-10,290.33	-85.33	10,290.68	0.00	0.00	0.00
18,300.00	89.23	180.48	8,203.91	-10,390.32	-86.16	10,390.67	0.00	0.00	0.00
18,400.00	89.23	180.48	8,205.25	-10,490.30	-86.99	10,490.66	0.00	0.00	0.00
18,500.00	89.23	180.48	8,206.59	-10,590.29	-87.82	10,590.65	0.00	0.00	0.00
18,600.00	89.23	180.48	8,207.94	-10,690.28	-88.64	10,690.65	0.00	0.00	0.00
18,700.00	89.23	180.48	8,209.28	-10,790.27	-89.47	10,790.64	0.00	0.00	0.00
18,800.00	89.23	180.48	8,210.62	-10,890.25	-90.30	10,890.63	0.00	0.00	0.00
18,900.00	89.23	180.48	8,211.97	-10,990.24	-91.13	10,990.62	0.00	0.00	0.00
19,000.00	89.23	180.48	8,213.31	-11,090.23	-91.96	11,090.61	0.00	0.00	0.00
19,100.00	89.23	180.48	8,214.65	-11,190.22	-92.79	11,190.60	0.00	0.00	0.00
19,200.00	89.23	180.48	8,216.00	-11,290.20	-93.62	11,290.59	0.00	0.00	0.00
19,300.00	89.23	180.48	8,217.34	-11,390.19	-94.45	11,390.58	0.00	0.00	0.00
19,400.00	89.23	180.48	8,218.68	-11,490.18	-95.28	11,490.57	0.00	0.00	0.00
19,497.97	89.23	180.48	8,220.00	-11,588.14	-96.09	11,588.54	0.00	0.00	0.00
TD - 19497.97' MI	O - 8220' TVD	- PBHL (GP 14	-23 FC 2H)						

Design Targets Target Name hit/miss target Shape	Angle Dip	Dir.	TVD (üsft)-4	+N/S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	. Congitude
TGT 1 (GP 14-23 FC 2H - plan hits target center - Point	0.00	0.00	8,155.00	-1,679.93	-13.93	574,781.40	628,241.75	32° 34' 47.322 N	104° 3′ 4.309 W
TGT 2 (GP 14-23 FC 2H - plan hits target center - Point	0.00	0.00	8,170.00	-7,853.60	-65.12	568,607.73	628,190.56	32° 33' 46.232 N	104° 3' 5.098 W
PBHL (GP 14-23 FC 2H) - plan hits target center - Point	0.00	0.00	8,220.00	-11,588.14	-96.09	564,873.19	628,159.59	32° 33′ 9.278 N	104° 3' 5.575 W

Planning Report

The state of the s	CONTRACTOR OF THE PROPERTY OF	حرار مداده ما محالها
Database: EDM 5000.1 Single User Db	(Local Co-ordinate Reference: Well 2H	3
Company: See DEVON ENERGY	TVD Reference: Cactus 126: 3301.8' GL + 25' RKB @). 4
	3326.80usft	ã
Project: (1) Eddy County, NM (NAD-83)	MD:Reference: Cactus 126: 3301.8' GL + 25' RKB @	3
	4 3326 80usft	4
Site: Ghost Pepper 14-23 Fed Com	North Reference: Grid	1
Well:	Survey Calculation Method: Minimum Curvature	4
Wellbore: (1996) 2H OH		j
Design: 2 Plan #1		1

Formations 42	radio anti-transprimentati firma esper o a transprimento espera de despesar esperante	y in the properties of the properties of the state of the	Distriction of the state of the
** Measured			
Depth 1	· Deoth · ·		Dip! Direction,
(usft)	(usft)	Name 2	Lithology (3)
174.00	112.20	number fant men oanen er ûne it demokter werten stere alleise fan te betrekken besteken. Dit demokte bûtstek hit bestek bût til	0.00
474.00	412.20	Salado	. 0.00
1,324.00	1,262.20	Base of Salt	0.00
1,734.00	1,672.20	Capitan	0.00
3,249.00	3,187.20	Capitan Base	0.00
3,514.00	3,452.20	Delaware	0.00 ·
5,979.00	5,917.20	1st BS Lime	0.00
7,180.00	7,118.20	1st BS Sand	0.00
7,380.00	7,318.20	2nd BS Lime	0.00
8,041.76	7,932.20	2nd BS Sand	0.00
L			

Plan Annotations	enter auto in transcription and an extension of the second section of the se	an ng gi tinggi si ting mang mang pagganah kina si salah sang mga m Kina sa sangki sa mang mga mga mga mga mga mga mga mga mga mg	aga ng 1969. Na 1962 a timon, marin na mang againg ng ang si na na sang ang sang na manggang na	
Measured	Vertical	Local Coor	dinates	
Depth	Depth	/+N/-S	+E/W	
(usft)	ر (usft)	پ ا(usft) پ	(usft)	Comment
7,582.04	7,582.04	0.00	0.00	KOP 10° DLS
8,482.04	8,155.00	-572.94	-4.75	LP - 8482,04' MD - 8155' TVD
9,589.07	8,155.00	-1,679.93	-13.93	2° DLS
9,596.03	8,155.01	-1,686.89	-13.99	Hold
15,762.97	8,170.00	-7,853.60	-65.12	2° DLS
15,794.49	8,170.25	-7,885,12	-65.38	Hold
19,497.97	8,220.00	-11,588.14	-96.09	TD - 19497.97' MD - 8220' TVD

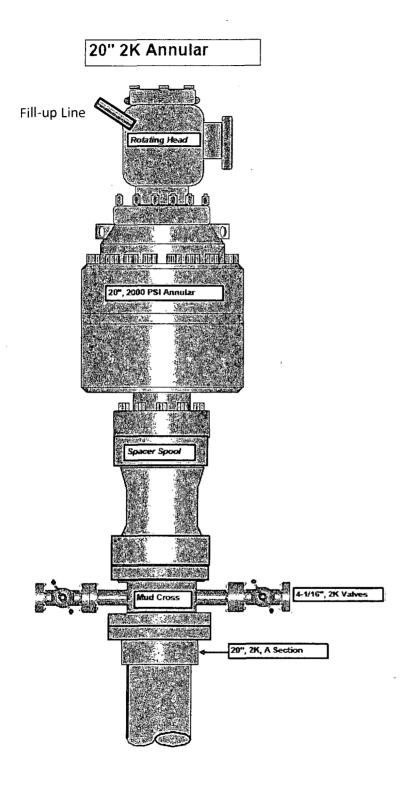
MD	INCL	AZIMUTH	TVD	VS	N(+)	E(+)	DL/100'	BUILD/100	TURN/100'
0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00				0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.0	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.0	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.0	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.0	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.0	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.0	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.0	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.0	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.0	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.0	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00			1200.00	0.00	0.00	0.00		0.00	0.00
1300.00			1300.00	0.00	0.00	0.00		0.00	0.00
1400.00				0.00	0.00			0.00	0.00
1500.00				0.00	0.00			0.00	0.00
1600.00			1600.00	0.00	0.00			0.00	0.00
1700.00				0.00	0.00			0.00	0.00
1800.00			1800.00	0.00	0.00		0.00	0.00	0.00
1900.00			1900.00	0.00	0.00			0.00	0.00
2000.00			2000.00	0.00	0.00			0.00	0.00
2100.00			2100.00	0.00	0.00			0.00	0.00
2200.00			2200.00	0.00	.0.00			0.00	0.00
2300.00			2300.00	0.00	0.00		0.00	0.00	0.00
2400.00			2400.00	0.00	0.00		0.00	0.00	0.00
2500.00			2500.00	0.00	0.00		0.00	0.00	0.00
2600.00			2600.00	0.00	0.00		0.00	0.00	0.00
2700.00 2800.00			2700.00 2800.00	0.00	0.00 0.00		0.00	0.00	0.00 0.00
2900.00				0.00	0.00			0.00	0.00
3000.00			3000.00	0.00	0.00			0.00	0.00
3100.00			3100.00	0.00	0.00			0.00	0.00
3200.00			3200.00	0.00	0.00			0.00	0.00
3300.00			3300.00	0.00	0.00			0.00	0.00
3400.00			3400.00	0.00	0.00			0.00	0.00
3500.00			3500.00	0.00	0.00			0.00	0.00
3600.00			3600.00	0.00	0.00			0.00	0.00
3700.00			3700.00	0.00	0.00			0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00		0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00		0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00

4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00
6700.00	0.00	0.00	6700.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00
6800.00	0.00	0.00	6800.00 6900.00	0.00	0.00	0.00	0.00	0.00	0.00
6900.00 7000.00	0.00 0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	0.00	0.00
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	0.00	0.00
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	0.00	0.00
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	0.00	0.00
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	0.00	0.00
7582.04	0.00	0.00	7582.04	0.00	0.00	0.00	0.00	0.00	0.00
7600.00	1.80	180.48	7600.00	0.28	-0.28	0.00	10.00	10.00	0.00
7650.00	6.80	180.48	7649.84	4.03	-4.03	-0.03	10.00	10.00	0.00
7700.00	11.80	180.48	7699.17	12.10	-12.10	-0.10	10.00	10.00	0.00
7750.00	16.80	180.48	7747.60	24.44	-24.44	-0.20	10.00	10.00	0.00
7800.00	21.80	180.48	7794.78	40.96	-40.96	-0.34	10.00	10.00	0.00
7850.00	26.80	180.48	7840.34	61.53	-61.52	-0.51	10.00	10.00	0.00
7900.00	31.80	180.48	7883.93	85.98	-85.98	-0.71	10.00	10.00	0.00
7950.00	36.80	180.48	7925.22	114.15	-114.14	-0.95	10.00	10.00	0.00
8000.00	41.80	180.48	7963.91	145.80	-145.80	-1.21	10.00	10.00	0.00
8050.00	46.80	180.48	7999.68	180.71	-180.71	-1.50	10.00	10.00	0.00
8100.00	51.80	180.48	8032.28	218.60	-218.60	-1.81	10.00	10.00	0.00
8150.00	56.80	180.48	8061.45	259.19	-259.18	-2.15	10.00	10.00	0.00
8200.00	61.80	180.48	8086.97	302.17	-302.16	-2.51	10.00	10.00	0.00
8250.00	66.80	180.48	8108.65	347.21	-347.20	-2.88	10.00	10.00	0.00
8300.00	71.80	180.48	8126.32	393.97	-393.95	-3.27	10.00	10.00	0.00

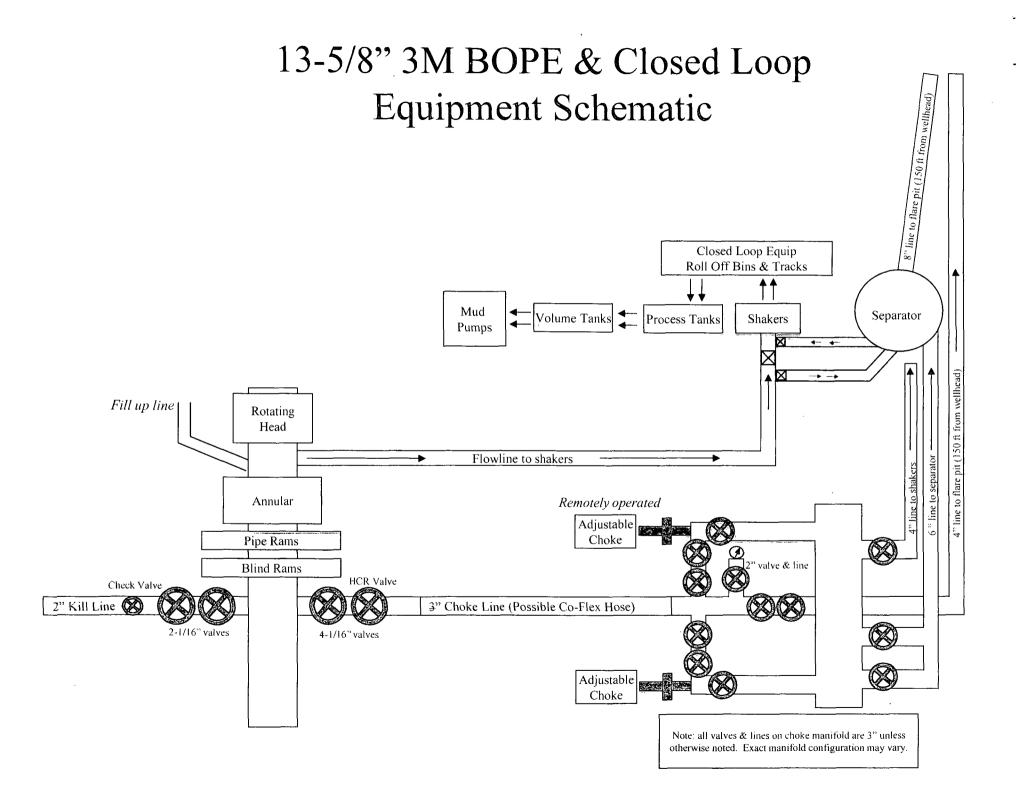
8350.00	76.80	180.48	8139.85	442.08	-442.07	-3.67	10.00	10.00	0.00
8400.00	81.80	180.48	8149.13	491.20	-491.18	-4.07	10.00	10.00	0.00
8450.00	86.80	180.48	8154.10	540.93	-540.92	-4.49	10.00	10.00	0.00
8482.04	90.00	180.48	8155.00	572.96	-572.94	-4.75	10.00	10.00	0.00
8500.00	90.00	180.48	8155.00	590.92	-590.90	-4.90	0.00	0.00	0.00
8600.00	90.00	180.48	8155.00	690.92	-690.89	-5.73	0.00	0.00	0.00
8700.00	90.00	180.48	8155.00	790.92	-790.89	-6.56	0.00	0.00	0.00
8800.00	90.00	180.48	8155.00	890.92	-890.89	-7.39	0.00	0.00	0.00
8900.00	90.00	180.48	8155.00	990.92	-990.88	-8.22	0.00	0.00	0.00
9000.00	90.00	180.48	8155.00	1090.92	-1090.88	-9.05	0.00	0.00	0.00
9100.00	90.00	180.48	8155.00	1190.92	-1190.88	-9.87	0.00	0.00	0.00
9200.00	90.00	180.48	8155.00	1290.92	-1290.87	-10.70	0.00	0.00	0.00
9300.00	90.00	180.48	8155.00	1390.92	-1390.87	-11.53	0.00	0.00	0.00
9400.00	90.00	180.48	8155.00	1490.92	-1490.87	-12.36	0.00	0.00	0.00
9500.00	90.00	180.48	8155.00	1590.92	-1590.86	-13.19	0.00	0.00	0.00
9589.07	90.00	180.48	8155.00	1679.99	-1679.93	-13.93	0.00	0.00	0.00
9596.03	89.86	180.48	8155.01	1686.95	-1686.89	-13.99	2.00	-2.00	0.00
9600.00	89.86	180.48	8155.02	1690.92	-1690.86	-14.02	0.00	0.00	0.00
9700.00	89.86	180.48	8155.26	1790.92	-1790.86	-14.85	0.00	0.00	0.00
9800.00	89.86	180.48	8155.50	1890.92	-1890.85	-15.68	0.00	0.00	0.00
9900.00	89.86	180.48	8155.75	1990.92	-1990.85	-16.51	0.00	0.00	0.00
10000.00	89.86	180.48	8155.99	2090.92	-2090.84	-17.34	0.00	0.00	0.00
10100.00	89.86	180.48	8156.23	2190.92	-2190.84	-18.17	0.00	0.00	0.00
10200.00	89.86	180.48	8156.48	2290.92	-2290.84	-19.00	0.00	0.00	0.00
10300.00	89.86	180.48	8156.72	2390.92	-2390.83	-19.82	0.00	0.00	0.00
10400.00	89.86	180.48	8156.96	2490.92	-2490.83	-20.65	0.00	0.00	0.00
10500.00	89.86	180.48	8157.21	2590.92	-2590.83	-21.48	0.00	0.00	0.00
10600.00	89.86	180.48	8157.45	2690.91	-2690.82	-22.31	0.00	0.00	0.00
10700.00	89.86	180.48	8157.69	2790.91	-2790.82	-23.14	0.00	0.00	0.00
10800.00	89.86	180.48	8157.94	2890.91	-2890.81	-23.97	0.00	0.00	0.00
10900.00	89.86	180.48	8158.18	2990.91	-2990.81	-24.80	0.00	0.00	0.00
11000.00	89.86	180.48	8158.42	3090.91	-3090.81	-25.63	0.00	0.00	0.00
11100.00	89.86	180.48	8158.66	3190.91	-3190.80	-26.46	0.00	0.00	0.00
11200.00	89.86	180.48	8158.91	3290.91	-3290.80	-27.29	0.00	0.00	0.00
11300.00	89.86	180.48	8159.15	3390.91	-3390.80	-28.12	0.00	0.00	0.00
11400.00	89.86	180.48	8159.39	3490.91	-3490.79	-28.95	0.00	0.00	0.00
11500.00	89.86	180.48	8159.64	3590.91	-3590.79	-29.78	0.00	0.00	0.00
11600.00	89.86	180.48	8159.88	3690.91	-3690.78	-30.60	0.00	0.00	0.00
11700.00	89.86	180.48	8160.12	3790.91	-3790.78	-31.43	0.00	0.00	0.00
11800.00	89.86	180.48	8160.37	3890.91	-3890.78	-32.26	0.00	0.00	0.00
11900.00	89.86	180.48	8160.61	3990.91	-3990.77	-33.09	0.00	0.00	0.00
12000.00	89.86	180.48	8160.85	4090.91	-4090.77	-33.92	0.00	0.00	0.00
12100.00	89.86	180.48	8161.10	4190.91	-4190.77	-34.75	0.00	0.00	0.00
12200.00	89.86	180.48	8161.34	4290.91	-4290.76	-35.58	0.00	0.00	0.00
12300.00	89.86	180.48	8161.58	4390.91	-4390.76	-36.41	0.00	0.00	0.00
12400.00	89.86	180.48	8161.82	4490.91	-4490.76	-37.24	0.00	0.00	0.00
12500.00	89.86	180.48	8162.07	4590.91	-4590.75	-38.07	0.00	0.00	0.00

12600.00	89.86	180.48	8162.31	4690.91	-4690.75	-38.90	0.00	0.00	0.00
12700.00	89.86	180.48	8162.55	4790.91	-4790.74	-39.73	0.00	0.00	0.00
12800.00	89.86	180.48	8162.80	4890.91	-4890.74	-40.55	0.00	0.00	0.00
12900.00	89.86	180.48	8163.04	4990.91	-4990.74	-41.38	0.00	0.00	0.00
13000.00	89.86	180.48	8163.28	5090.91	-5090.73	-42.21	0.00	0.00	0.00
13100.00	89.86	180.48	8163.53	5190.91	-5190.73	-43.04	0.00	0.00	0.00
13200.00	89.86	180.48	8163.77	5290.91	-5290.73	-43.87	0.00	0.00	0.00
13300.00	89.86	180.48	8164.01	5390.91	-5390.72	-44.70	0.00	0.00	0.00
13400.00	89.86	180.48	8164.26	5490.91	-5490.72	-45.53	0.00	0.00	0.00
13500.00	89.86	180.48	8164.50	5590.91	-5590.71	-46.36	0.00	0.00	0.00
13600,00	89.86	180.48	8164.74	5690.91	-5690.71	-47.19	0.00	0.00	0.00
13700.00	89.86	180.48	8164.99	5790.91	-5790.71	-48.02	0.00	0.00	0.00
13800.00	89.86	180.48	8165.23	5890.91	-5890.70	-48.85	0.00	0.00	0.00
13900.00	89.86	180.48	8165.47	5990.91	-5990.70	-49.68	0.00	0.00	0.00
14000.00	89.86	180.48	8165.71	6090.90	-6090.70	-50.50	0.00	0.00	0.00
14100.00	89.86	180.48	8165.96	6190.90	-6190.69	-51.33	0.00	0.00	0.00
14200.00	89.86	180.48	8166.20	6290.90	-6290.69	-52.16	0.00	0.00	0.00
14300.00	89.86	180.48	8166.44	6390.90	-6390.68	-52.99	0.00	0.00	0.00
14400.00	89.86	180.48	8166.69	6490.90	-6490.68	-53.82	0.00	0.00	0.00
14500.00	89.86	180.48	8166.93	6590.90	-6590.68	-54.65	0.00	0.00	0.00
14600.00	89.86	180.48	8167.17	6690.90	-6690.67	-55.48	0.00	0.00	0.00
14700.00	89.86	180.48	8167.42	6790.90	-6790.67	-56.31	0.00	0.00	0.00
14800.00	89.86	180.48	8167.66	6890.90	-6890.67	-57.14	0.00	0.00	0.00
14900.00	89.86	180.48	8167.90	6990.90	-6990.66	-57.97	0.00	0.00	0.00
15000.00	89.86	180.48	8168.15	7090.90	-7090.66	-58.80	0.00	0.00	0.00
15100.00	89.86	180.48	8168.39	7190.90	-7190.65	-59.63	0.00	0.00	0.00
15200.00	89.86	180.48	8168.63	7290.90	-7290.65	-60.45	0.00	0.00	0.00
15300.00	89.86	180.48	8168.87	7390.90	-7390.65	-61.28	0.00	0.00	0.00
15400.00	89.86	180.48	8169.12	7490.90	-7490.64	-62.11	0.00	0.00	0.00
15500.00	89.86	180.48	8169.36	7590.90	-7590.64	-62.94	0.00	0.00	0.00
15600.00	89.86	180.48	8169.60	7690.90	-7690.64	-63.77	0.00	0.00	0.00
15700.00	89.86	180.48	8169.85	7790.90	-7790.63	-64.60	0.00	0.00	0.00
15762.97	89.86	180.48	8170.00	7853.87	-7853.60	-65.12	0.00	0.00	0.00
15794.49	89.23	180.48	8170.25	7885.39	-7885.12	-65.38	2.00	-2.00	0.00
15800.00	89.23	180.48	8170.32	7890.90	-7890.63	-65.43	0.00	0.00	0.00
15900.00	89.23	180.48	8171.67	7990.89	-7990.61	-66.26	0.00	0.00	0.00
16000.00	89.23	180.48	8173.01	8090.88	-8090.60	-67.09	0.00	0.00	0.00
16100.00	89.23	180.48	8174.35	8190.87	-8190.59	-67.92	0.00	0.00	0.00
16200.00	89.23	180.48	8175.70	8290.86	-8290.58	-68.75	0.00	0.00	0.00
16300.00	89.23	180.48	8177.04	8390.85	-8390.56	-69.58	0.00	0.00	0.00
16400.00	89.23	180.48	8178.38	8490.84	-8490.55	-70.40	0.00	0.00	0.00
16500.00	89.23	180.48	8179.73	8590.83	-8590.54	-71.23	0.00	0.00	0.00
16600.00	89.23	180.48	8181.07	8690.83	-8690.53	-72.06	0.00	0.00	0.00
16700.00	89.23	180.48	8182.41	8790.82	-8790.51	-72.89	0.00	0.00	0.00
16800.00	89.23	180.48	8183.76	8890.81	-8890.50	-73.72	0.00	0.00	0.00
16900.00	89.23	180.48	8185.10	8990.80	-8990.49	-74.55	0.00	0.00	0.00
17000.00	89.23	180.48	8186.44	9090.79	-9090.48	-75.38	0.00	0.00	0.00

89.23	180.48	8187.79	9190.78	-9190.46	-76.21	0.00	0.00	0.00
89.23	180.48	8189.13	9290.77	-9290.45	-77.04	0.00	0.00	0.00
89.23	180.48	8190.47	9390.76	-9390.44	-77.87	0.00	0.00	0.00
89.23	180.48	8191.82	9490.75	-9490.43	-78.70	0.00	0.00	0.00
89.23	180.48	8193.16	9590.74	-9590.41	-79.52	0.00	0.00	0.00
89.23	180.48	8194.50	9690.74	-9690.40	-80.35	0.00	0.00	0.00
89.23	180.48	8195.85	9790.73	-9790.39	-81.18	0.00	0.00	0.00
89.23	180.48	8197.19	9890.72	-9890.38	-82.01	0.00	0.00	0.00
89.23	180.48	8198.53	9990.71	-9990.36	-82.84	0.00	0.00	0.00
89.23	180.48	8199.88	10090.70	-10090.35	-83.67	0.00	0.00	0.00
89.23	180.48	8201.22	10190.69	-10190.34	-84.50	0.00	0.00	0.00
89.23	180.48	8202.56	10290.68	-10290.33	-85.33	0.00	0.00	0.00
89.23	180.48	8203.91	10390.67	-10390.32	-86.16	0.00	0.00	0.00
89.23	180.48	8205.25	10490.66	-10490.30	-86.99	0.00	0.00	0.00
89.23	180.48	8206.59	10590.65	-10590.29	-87.82	0.00	0.00	0.00
89.23	180.48	8207.94	10690.65	-10690.28	-88.64	0.00	0.00	0.00
89.23	180.48	8209.28	10790.64	-10790.27	-89.47	0.00	0.00	0.00
89.23	180.48	8210.62	10890.63	-10890.25	-90.30	0.00	0.00	0.00
89.23	180.48	8211.97	10990.62	-10990.24	-91.13	0.00	0.00	0.00
89.23	180.48	8213.31	11090.61	-11090.23	-91.96	0.00	0.00	0.00
89.23	180.48	8214.65	11190.60	-11190:22	-92.79	0.00	0.00	0.00
89.23	180.48	8216.00	11290.59	-11290.20	-93.62	0.00	0.00	0.00
89.23	180.48	8217.34	11390.58	-11390.19	-94.45	0.00	0.00	0.00
89.23	180.48	8218.68	11490.57	-11490.18	-95.28	0.00	0.00	0.00
89.23	180.48	8220.00	11588.54	-11588.14	-96.09	0.00	0.00	0.00
	89.23 89.23	89.23180.48	89.23 180.48 8189.13 89.23 180.48 8190.47 89.23 180.48 8191.82 89.23 180.48 8193.16 89.23 180.48 8194.50 89.23 180.48 8195.85 89.23 180.48 8198.53 89.23 180.48 8199.88 89.23 180.48 8201.22 89.23 180.48 8202.56 89.23 180.48 8205.25 89.23 180.48 8205.25 89.23 180.48 8207.94 89.23 180.48 8209.28 89.23 180.48 8210.62 89.23 180.48 8211.97 89.23 180.48 8213.31 89.23 180.48 8216.00 89.23 180.48 8217.34 89.23 180.48 8217.34 89.23 180.48 8216.00 89.23 180.48 8216.00 89.23 180.48 8216.00 89.23 180.48 8218.68	89.23 180.48 8189.13 9290.77 89.23 180.48 8190.47 9390.76 89.23 180.48 8191.82 9490.75 89.23 180.48 8193.16 9590.74 89.23 180.48 8194.50 9690.74 89.23 180.48 8195.85 9790.73 89.23 180.48 8198.53 9990.71 89.23 180.48 8199.88 10090.70 89.23 180.48 8201.22 10190.69 89.23 180.48 8202.56 10290.68 89.23 180.48 8205.25 10490.66 89.23 180.48 8205.25 10490.66 89.23 180.48 8207.94 10690.65 89.23 180.48 8207.94 10690.65 89.23 180.48 8210.62 10890.63 89.23 180.48 8211.97 10990.62 89.23 180.48 8213.31 11090.61 89.23 180.48 8214.65 11190.60 89.23 180.48 8216.00	89.23 180.48 8189.13 9290.77 -9290.45 89.23 180.48 8190.47 9390.76 -9390.44 89.23 180.48 8191.82 9490.75 -9490.43 89.23 180.48 8193.16 9590.74 -9590.41 89.23 180.48 8194.50 9690.74 -9690.40 89.23 180.48 8195.85 9790.73 -9790.39 89.23 180.48 8197.19 9890.72 -9890.38 89.23 180.48 8198.53 9990.71 -9990.36 89.23 180.48 8199.88 10090.70 -10090.35 89.23 180.48 8201.22 10190.69 -10190.34 89.23 180.48 8202.56 10290.68 -10290.33 89.23 180.48 8203.91 10390.67 -10390.32 89.23 180.48 8205.25 10490.66 -10490.30 89.23 180.48 8207.94 10690.65 -10590.29 89.23 180.48 8210.62 10890.63 -10890.25 89.23	89.23 180.48 8189.13 9290.77 -9290.45 -77.04 89.23 180.48 8190.47 9390.76 -9390.44 -77.87 89.23 180.48 8191.82 9490.75 -9490.43 -78.70 89.23 180.48 8193.16 9590.74 -9590.41 -79.52 89.23 180.48 8194.50 9690.74 -9690.40 -80.35 89.23 180.48 8195.85 9790.73 -9790.39 -81.18 89.23 180.48 8197.19 9890.72 -9890.38 -82.01 89.23 180.48 8199.83 10090.70 -10090.35 -83.67 89.23 180.48 8201.22 10190.69 -10190.34 -84.50 89.23 180.48 8202.56 10290.68 -10290.33 -85.33 89.23 180.48 8203.91 10390.67 -10390.32 -86.16 89.23 180.48 8205.25 10490.66 -10490.30 -86.99 89.23 180.48 8207.94 10690.65 -10590.29 -87.82 8	89.23 180.48 8189.13 9290.77 -9290.45 -77.04 0.00 89.23 180.48 8190.47 9390.76 -9390.44 -77.87 0.00 89.23 180.48 8191.82 9490.75 -9490.43 -78.70 0.00 89.23 180.48 8193.16 9590.74 -9590.41 -79.52 0.00 89.23 180.48 8194.50 9690.74 -9690.40 -80.35 0.00 89.23 180.48 8195.85 9790.73 -9790.39 -81.18 0.00 89.23 180.48 8197.19 9890.72 -9890.38 -82.01 0.00 89.23 180.48 8198.53 9990.71 -9990.36 -82.84 0.00 89.23 180.48 8199.88 10090.70 -10090.35 -83.67 0.00 89.23 180.48 8201.22 10190.69 -10190.34 -84.50 0.00 89.23 180.48 8202.56 10290.68 -10290.33 -85.33 0.00 89.23 180.48 8205.25 10490.66 -1049	89.23 180.48 8189.13 9290.77 -9290.45 -77.04 0.00 0.00 89.23 180.48 8190.47 9390.76 -9390.44 -77.87 0.00 0.00 89.23 180.48 8191.82 9490.75 -9490.43 -78.70 0.00 0.00 89.23 180.48 8193.16 9590.74 -9590.41 -79.52 0.00 0.00 89.23 180.48 8194.50 9690.74 -9690.40 -80.35 0.00 0.00 89.23 180.48 8195.85 9790.73 -9790.39 -81.18 0.00 0.00 89.23 180.48 8195.85 9790.73 -9790.39 -81.18 0.00 0.00 89.23 180.48 8197.19 9890.72 -9890.38 -82.01 0.00 0.00 89.23 180.48 8199.81 10090.70 -10090.35 -83.67 0.00 0.00 89.23 180.48 8201.22 10190.69 -10190.34 -84.50 0.00 0.00 89.23 180.48 8202.56 10290



*The same choke manifold will be used with all BOP's



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, L.P./Ghost Pepper 14-24 Fed Com/2H

- 1. Drilling Nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated filings will be in operable condition to withstand a minimum of 3000psi working pressure.
- 4. All fittings will be flanged.
- 5. A fill bore safety valve tested to a minimum of 3000psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Fluid Technology

ContiTech Beattle Corp. Website: www.contitechbeattle.com

Monday, June 14, 2010

RE:

Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly it is good practice to use lifting & safety equipment but not mandatory

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContiTech Beattle Corp

ContiTech Seattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com



R16 212

PHOENIX

QUALITY DOCUMENT

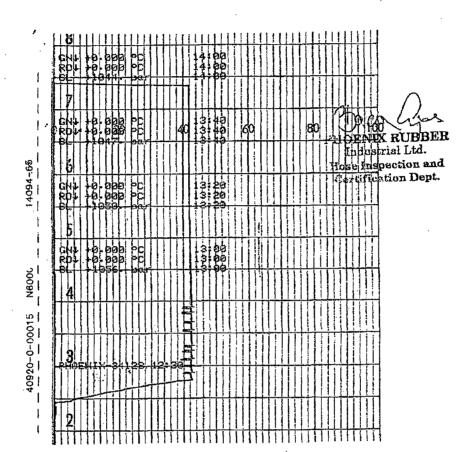
PHOENIX RUBBER

INDUSTRIAL LTD.

6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152 none: (3662) 556-737 • Fax: (3662) 558-738

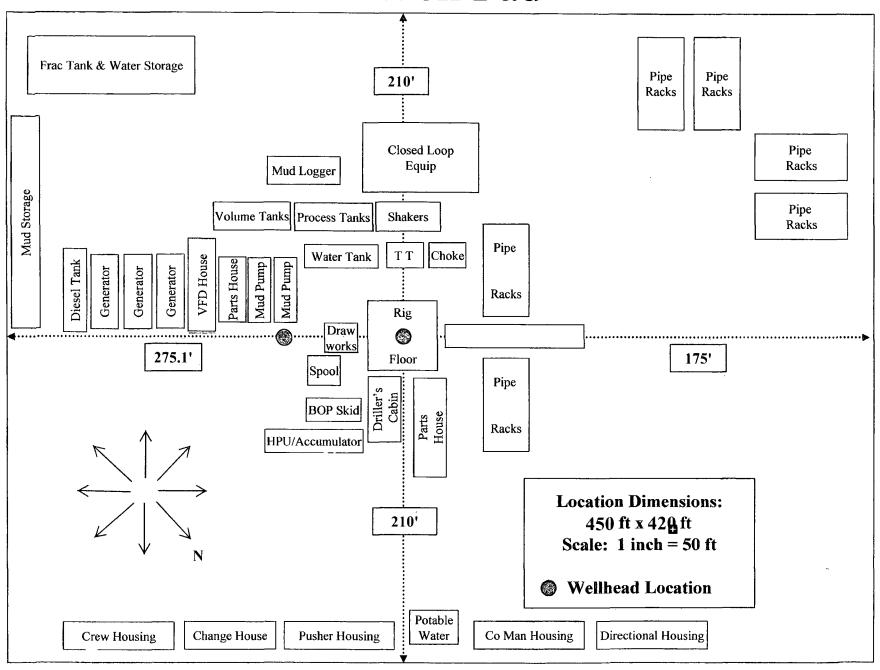
SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44, Hungary • H-1440 Budapest, P. O. 8ox 26 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE						5	52	
PURCHASER: Phoenix Beattie Co.					D. Nº1	1519F	A-871	
PHOENIX RUBBER order N°	HOSE TYPE: 3" ID Choke and Kill Hose							
HOSE SERIAL Nº 34128 NOMINAL / ACTUAL LENGTH: 11,43 m								
W.P. 68,96 MPa 10)000 psi	T.P. 103,4	MPa	15000	psi Di	uration:	60	min.
Pressure test with water at ambient temperature				· · · · · · · · · · · · · · · · · · ·			•	
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:	•						4 f	
	See atta	chment. (1	page)		•		•	3.47
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10 mm = 10 Min.								
→ 10 mm = 25 MPa	· · · · · · · · · · · · · · · · · · ·							<i>పరా</i> ణ
		COUPLIN	IGS					:=:
Туре		Serial Nº		Qua	ality		Heat N°	
3" coupling with	72	0 719		AISI 4	1130		C7626	
4 1/16" Flange end				AISI 4	4130		47357	
					:			•
			API Spe	ec 16 C				
All metal parts are flawless			Temper	rature ra	ite:"B"		±	
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE V	HOSE HAS BEEN WITH SATISFACTO	MANUFACTURE DRY RESULT.	D IN ACCO	RDANCE	WITH TH	E TERMS OF	THE ORDE	RAND
Date:	nspector		Quality	Control	HOEN	X RUBBI	ER	
29. April. 2002.			<u> Da</u>	Industrial Ltd. Hose Inspection and Average FIRST PRIFE CONVICTION PHOENIK AUSBER C.C.				



VERIFIED TRUE CG. PHOENIX RUBBER & C.

H&P Flex Rig Location Layout 2 Well Pad





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

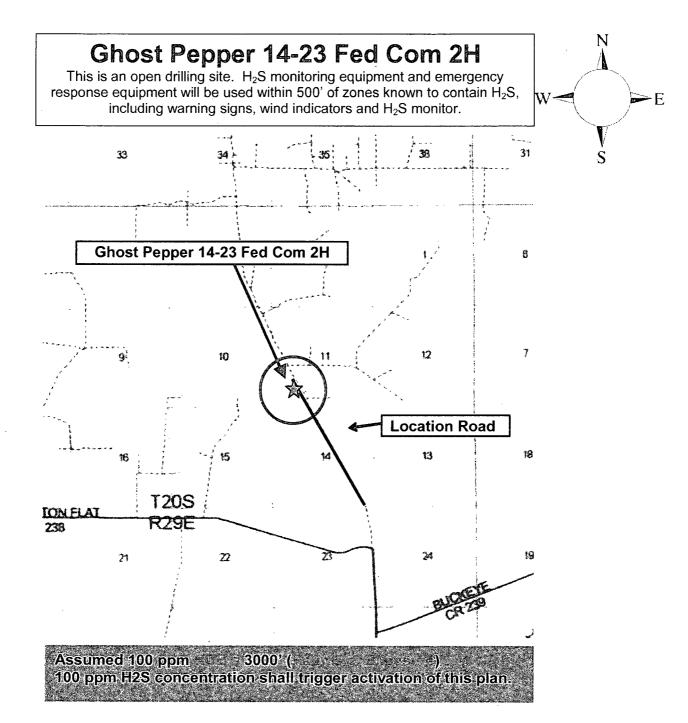
Hydrogen Sulfide (H₂S) Contingency Plan

For

Ghost Pepper 14-23 Fed Com 2H

Sec-11, T-20S R-29E 1350' FSL & 966' FWL, LAT. = 32.5844292'N (NAD83) LONG = 104.0511371'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, West then Northwest on lease road. Crews should then block 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,
 - o 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_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H2S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S 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 reasonable expected to contain H_2S .

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

A. Portable H₂S monitors positioned on location for best coverage and response. These unites have warning lights and audible sirens when H₂S levels of 20 PPM are reached. These units are usually capable of detecting SO₂, which is a byproduct of burning H₂S.

4. 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.

5. Mud program:

A. 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.

6. 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.

7. Communication:

- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

8. 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 Energy Corp. Company Call List

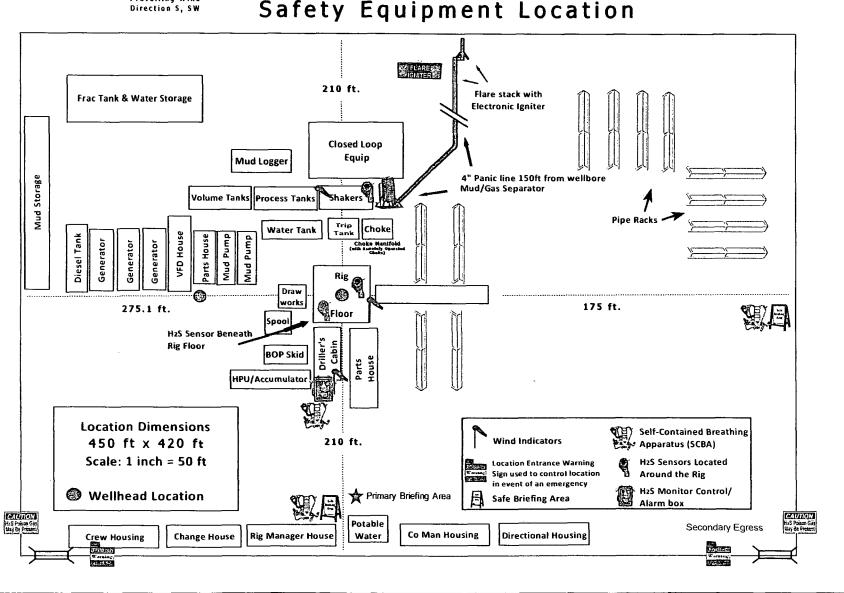
	<u>Artes</u>	ia (575)	Cellular	Office	<u>Home</u>			
	Asst. F Don M Montra	ian – Robert Bell Foreman –Tommy Polly layberry al Walker	748-5290 748-5235 390-5182	748-0165 748-0164(936	748-2846 746-4945) 414-6246			
Agency Call List								
<u>Lea</u> <u>Cour</u> (575)	<u>ity</u>	State Police	ncy Planning Commit	tee)	392-5588 397-9265 393-2515 911 397-9308 393-2870 393-6161			
Eddy Cour (575)	ity	City Police	ncy Planning Commit lanagement onse Commission (Sa	tee)(505	885-2111 887-7551 911 885-2111 887-3798 887-6544 6) 476-9600			
	E	mergency Services Boots & Coots IWC Cudd Pressure Contro Halliburton	L	(915) 699-0139 or (575) 746-2757				
Give GPS positio	on:	Native Air – Emergenc Flight For Life - Lubbook Aerocare - Lubbook, Ti Med Flight Air Amb - A Lifeguard Air Med Svc.	ck, TX X Ibuquerque, NM	(8 8)	806) 743-9911 806) 747-8923 75) 842-4433			

Prepared in conjunction with

Dave Small



Devon Petroleum - Well Pad Rig Location Layout Safety Equipment Location





Proposed Interim Site Reclamation

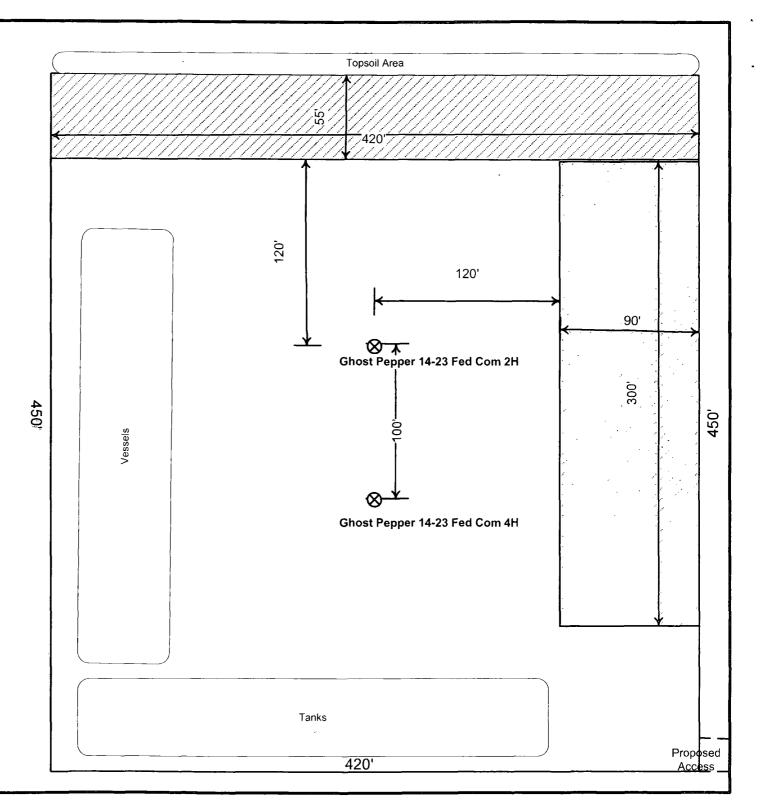
Devon Energy Production Co. Ghost Pepper 14-23 Fed Com 2H & 4H Sec.11-T20S-R29E Eddy County, NM







Scale: 1in = 60ft.



SURFACE USE PLAN

Devon Energy Production Company, L.P./Ghost Pepper 14-23 Fed Com/2H

1. Existing Roads:

- a. The well site and elevation plat for the proposed well are reflected on the "Site Map". The well was staked by Madron Surveying, Inc.
- b. All roads into the location are depicted on the "Vicinity Map". The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.
- c. Directions to Location: From the intersection of US Hwy 62-180 (Hobbs Hwy) and CR 238 (Burton Flat Rd) about ½ mile East of Mile Marker 49 on US Hwy 62-180 go North on CR 238 2.05 miles where pavement ends, continue North on Caliche lease road 2.05 miles to Caliche lease road on right, go East 0.11 miles, on right follow flags 333′ to Northwest corner of pad.

2. New or Reconstructed Access Roads:

- a. The "Site Map" shows new constructed access road, which will be approximately 333 LF from the existing Lease road.
- b. The maximum driving width of the access road will be 14 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. The road will be crowned and ditched with 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- c. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

The attached "One Mile Radius Map" shows all existing and proposed wells within a one-mile radius of the proposed location.

4. Location of Existing and/or Proposed Production Facilities:

- a. In the event the well is found productive, a tank battery would be utilized and the necessary production equipment will be installed at the well site. The tank battery would be located onsite.
- b. See "Interim Reclamation Diagram".
- c. If necessary, the well will be operated by means of an electric prime mover. If electric power poles are needed, a plat and a sundry notice will be filed with your office.
- d. All flow lines will adhere to API standards.
- e. If the well is productive, rehabilitation plans are as follows:
 - i. A closed loop system will be utilized.
 - ii. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

5. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads described and depicted on the "Vicinity Map". On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

6. Construction Materials:

Obtaining caliche: One primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means caliche will be obtained from the actual well site. Actual amounts will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- b. Subsoil is removed and stockpiled within the surveyed well pad.
- c. When caliche is found, material will be stock piled within the pad site to build the location and road.
- d. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- e. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced.
- f. Neither caliche, nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.

In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or land.

7. Methods of Handling Waste Material:

- a. Drill cuttings will be safely contained in a closed loop system and disposed of properly at a NMOCD approved disposal site.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier will pick up salts remaining after completion of well, including broken sacks.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be sent to a closed loop system. Water produced during completion will be put into a closed loop system. Oil and condensate produced will be put into a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. 1 & W Inc, Loco Hill NM

- iv. Jims Water Service of Co Inc, Denver CO
- 8. Ancillary Facilities: No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout

- a. The Rig Location Layout attachment shows the proposed well site layout and pad dimensions.
- b. The Rig Location Layout attachment proposes location of sump pits and living facilities.
- c. Mud pits in the active circulating system will be steel pits.
- d. A closed loop system will be utilized.
- e. If a pit or closed loop system is utilized, Devon will provide a copy of the Design Plan to the BLM.

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.
- d. All disturbed areas not needed for active support of production operations will undergo interim reclamation. The portions of the cleared well site not needed for operational and safety purposes will be recontoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Topsoil will be respread over areas not needed for all-weather operations.

11. Surface Ownership

- a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- b. The proposed road routes and the surface location will be restored as directed by the BLM.

12. Other Information:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sage bush, yucca and miscellaneous weeds. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by Southern New Mexico Archaeological Services, Inc. and forwarded to the BLM office in Carlsbad, New Mexico.

13. Bond Coverage:

Bond Coverage is Nationwide; Bond # is CO-1104 & NMB-000801.

Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Darryl Fuller - Production Engineer Devon Energy Production Company, L.P. 333 W. Sheridan Oklahoma City, OK 73102-5010 (405) 552-3665 (office) (405) 708-0461 (Cell)

Don Mayberry - Superintendent Devon Energy Production Company, L.P. Post Office Box 250 Artesia, NM 88211-0250 (575) 748-3371 (office) (575) 746-4945 (home)

Certification

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

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

Executed this 7th day of August, 2014

Printed Name: Linda, Good

Signed Name: Signed Name:

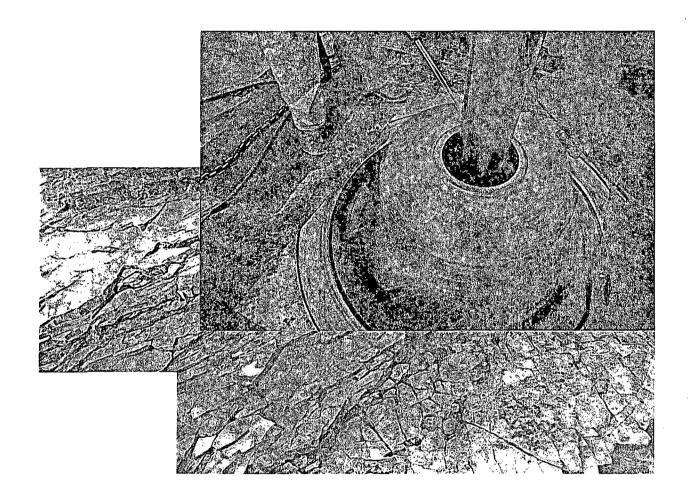
Position Title: Regulatory Compliance Specialist

Address: 333 W. Sheridan, OKC OK 73102

Telephone: (405)-552-6558



Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

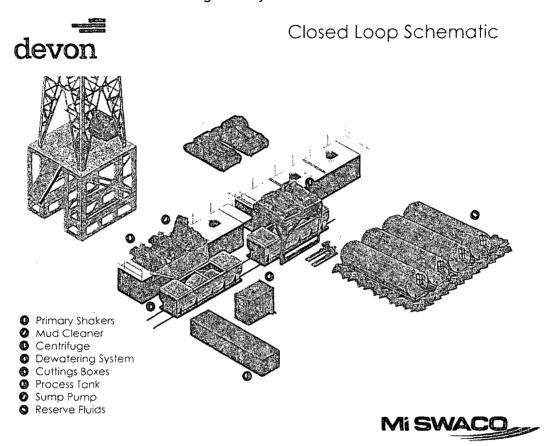
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM-129731
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Devon Energy Production Company, L.P.
NMNM-129731
Ghost Pepper 14-23 Fed Com 2H
1350' FSL & 966' FWL
9330' FSL & 0850' FWL Sec. 23, T. 20 S., R 29 E.
Section 11, T. 20 S., R 29 E., NMPM
COUNTY:
Eddy County, New Mexico

TABLE OF CONTENTS

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

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
☐ Noxious Weeds
Special Requirements
Cave/Karst
Communitization Agreement
◯ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
Cement Requirements
Secretary's Potash
H2S Requirements
High Cave/Karst
Capitan Reef
Logging Requirements
Waste Material and Fluids
☐ Production (Post Drilling)
. Well Structures & Facilities
☐ Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Location Fencing:

Due to the locations of several karst features in the immediate area of the proposed projects, all locations will be fenced off with 4 strand fencing PRIOR to any pad construction and will remain in place until all wells are drilled and in production.

Drilling:

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

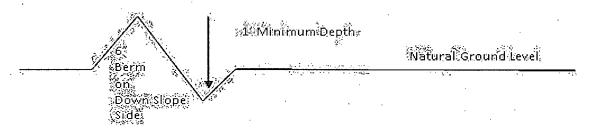
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards 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 cattleguards that are in place and are utilized during lease operations.

Fence Requirement

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

Public Access

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

Construction Steps

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

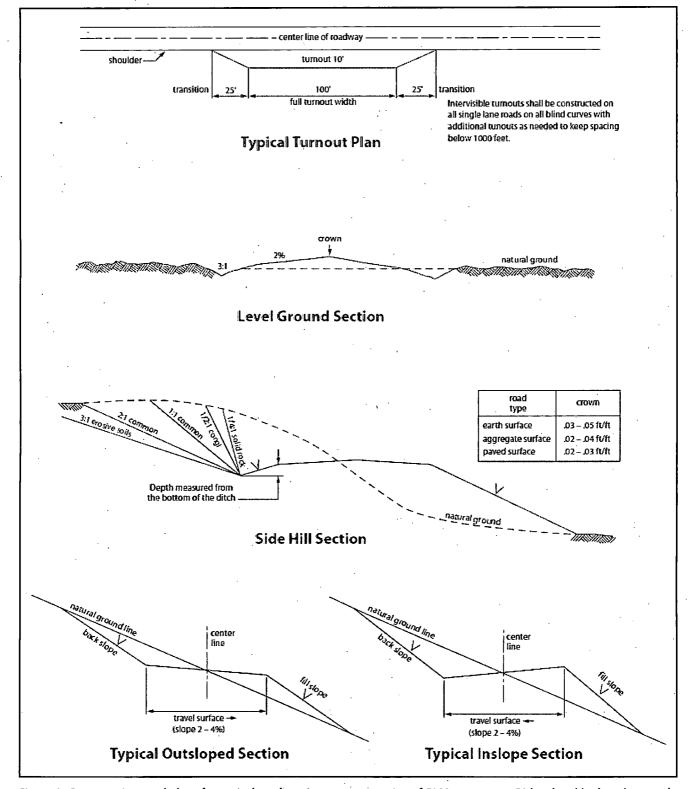


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1 Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe and a Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.
- 4. 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.

B. CASING

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.

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

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.

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

Secretary's Potash
High Cave/Karst
Capitan Reef
Possible water flows in the Artesia Group.
Possible lost circulation in the Artesia Group, Rustler, and Salado Groups.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH.

- 1. The 20 inch surface casing shall be set at approximately 375 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt. Excess calculates to 0% Additional cement may be required.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 13-3/8 inch 1st intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and potash.
- 3. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing is:

Option #1:

□ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef and potash.

Option #2:

Operator has proposed DV tool at depth of 1425', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- Ement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- □ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef and potash. Excess calculates to 5% Additional cement may be required.

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

4. Production Casing Options:

Option #1:

The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 50 feet above the Capitan Reef (Top of Capitan Reef estimated at 1785'). Operator shall provide method of verification. Excess calculates to 17% - Additional cement may be required.

Option #2:

The minimum required fill of cement behind the 7 X 5-1/2 inch production casing is:

Cement should tie-back at least 50 feet above the Capitan Reef (Top of Capitan Reef estimated at 1785'). Operator shall provide method of verification. Excess calculates to 21% - Additional cement may be required.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

· C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 1st intermediate casing shoe shall be 3000 (3M) psi.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. 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.

- b. 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).
- c. 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.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. 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.
- f. 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.

D. DRILL STEM TEST

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

E. 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.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the

largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

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

IX. INTERIM RECLAMATION

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

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

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

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

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

X. FINAL ABANDONMENT & RECLAMATION

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

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

- After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.
- Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1, for Loamy Sites

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

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/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

	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

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