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NOV 22 2010

OCD Hobbs

Form 3160 -3
(February 2005)

HOBBSOCD

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

5. Lease Serial No.

BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 1a. Type of work: DRILL REENTER 2 If Unit or CA Agreem 1b. Type of Well: Oil Well Gas Well Other 2 Name of Operator Devon Energy Production Co., LP 3a. Address 20 North Broadway OKC, OK 73102 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NENE 660' FNL & 330' FEL Unit A At proposed prod. zone NWNW 660' FNL & 330' FWL Unit D 14. Distance in miles and direction from nearest town or post office* Approximately 12 miles southeast of Maljamar, NM. 15. Distance from proposed* location to nearest lone, ft. (Also to nearest drig, unit line, if any) 10. Find on Multiple Zone West Shinnery 9. API Well No. 30. Phone No. (include free code) 10. Find on Oil Exp 10. Find on Oil Exp 11. Sec., T. R. M. or Blk. and Sec 15-T18S 12. County or Parish Lea 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	nent, Name and No. 11 No. 15 Fed #2H 5-3 9956 Soloratory 40565356 and Survey or Area
10. Type of Well:	11 No. 15 Fed #2H 5-3 9956 Sloratory JAN 65356 and Survey or Area 3-R32E
10. Type of Well: Oil Well Gas Well Other Single Zone	15 Fed #2H 5 - 3 9956 Sloratory A 65356 and Survey or Area 13. State
2. Name of Operator Devon Energy Production Co., LP 30 - D 25 3a. Address 20 North Broadway OKC, OK 73102 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NENE 660' FNL & 330' FEL Unit A At proposed prod. zone NWNW 660' FNL & 330' FWL Unit D 4. Distance in miles and direction from nearest town or post office* Approximately 12 miles southeast of Maljamar, NM. 5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 10. First of location on expect poly. (405)-236-3511 11. Sec., T. R. M. or Blk. and In accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and In accordance with any State requirements.*) 12. County or Parish Lea 13. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No. of acres in lease location to hearest drig. unit line, if any)	5-39956 Soloratory SAC 65356 and Survey or Area G-R32E
OKC, OK 73102 (405)-236-3511	3-R32E
At surface NENE 660' FNL & 330' FEL Unit A At proposed prod. zone NWNW 660' FNL & 330' FWL Unit D Distance in miles and direction from nearest town or post office* Approximately 12 miles southeast of Maljamar, NM. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Sec 15-T18S 12. County or Parish Lea 17. Spacing Unit dedicated to this well 16. No. of acres in lease 17. Spacing Unit dedicated to this well 18. No. of acres in lease 19. Spacing Unit dedicated to this well 19. Spacing Unit dedicated to this well	S-R32E
At proposed prod. zone NWNW 660' FNL & 330' FWL Unit D 12. County or Parish Approximately 12 miles southeast of Maljamar, NM. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Sec 15-T18S 12. County or Parish Lea 16. No. of acres in lease 17. Spacing Unit dedicated to this well 16. No. of acres in lease 17. Spacing Unit dedicated to this well 18. To acres	13. State
Approximately 12 miles southeast of Maljamar, NM. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No. of acres in lease 17. Spacing Unit dedicated to this well 18. No. of acres in lease 19. No. of acres in lease 19. Spacing Unit dedicated to this well 19. Approximately 12 miles southeast of Maljamar, NM. 104. No. of acres in lease 105. No. of acres in lease 17. Spacing Unit dedicated to this well 18. No. of acres in lease 19. Approximately 12 miles southeast of Maljamar, NM. 106. No. of acres in lease 17. Spacing Unit dedicated to this well 18. No. of acres in lease 19. Approximately 12 miles southeast of Maljamar, NM. 19. Approximately 12 miles southeast of Maljamar, NM. 108. No. of acres in lease 19. Approximately 12 miles southeast of Maljamar, NM. 109. Approximately 12 miles sou	1
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 104.180 ac 160 acres	
(The to hear out ong, white proof is	
B. Distance from proposed location* 19. Proposed Depth 13587 20. BLM/BIA Bond No. on file to nearest well, drilling, completed,	
applied for, on this lease, ft. See attached map TVD 9.187 MD 13,596 CO-1104	
Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 45 days	
24. Attachments	
e following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:	
Well plat certified by a registered surveyor. A Drilling Plan. 4. Bond to cover the operations unless covered by an existence of the properties of the pro	sting bond on file (see
A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 5. Operator certification 6. Such other site specific information and/or plans as may BLM.	y be required by the
Signature Sparl Lind Name (Printed/Typed) Dat Spence Laird	e 08/27/2010
le Regulatory Analyst	
proved by (Signature) /s/ Don Peterson Name (Printed/Typed) Date	te NOV 18 20
FIELD MANAGER CARLSBAD FIELD OFFICE	E
plication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle duct operations thereon.	e the applicant to
le 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or ag	

*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL Kallasho

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

RECEIVED

District I		NOA	22 201	0	State of Ne	w Mexico			Form	n C-102	
1625 N. French Dr.	., Hobbs, NA	1 88240	3BSU	nerev. Mi	nerals & Natura	w Mexico al Resources Depa	rtment		Revised Oc	tober 15	,2009
					ONSERVA	TION DIVISIO	N	St	ubmit one co	py to ap	propriate
1301 W. Grand Av <u>District III</u>	enue, Artesi	a, MOI 8821	·				14		Distri	ct Office	e
1000 Rin Brazos R	d., Aztec, NN	4 87410		1	220 South St	. Francis Dr.					
District IV	,,				Santa Fe, N	IM 87505			☐ AMEN	DED RE	EPORT
1220 S. St. Francis	Dr., Santa F	e, NM 8750	05			-	· · · .				
		•	WELL LO	CATIO	N AND ACI	REAGE DEDIC	CATIC	N PLA	T		
30-0	API Number	2995	56 6	Pool Cod	le y	oun a	во	³ Pool Na NE SP	me RINGS	1/0	cth
⁴ Property (Code	<u>) ((C</u>	241	<u>V / J / I</u>	3 Property	Name				° We	ll Number
202	12			w	EST SHINNE	•					2H
OGRID	No.				8 Operator					⁹ E	llevation
6137			DEV	ON ENE	RGY PRODU	CTION COMPA	NY. L.	P.		3	816.8
0.07	i				¹⁰ Surface						
Ul, or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet f	rom the	East/West I	ine	County
A.	15	18 S	32 E	Lot Idn	660	NORTH	1	30	EAST	. 1	LEA
	15	10.5				<u> </u>	I		EASI		DEA
						f Different From					
UL or lot no.	Section	Township	1	Lot ldn	Feet from the	North/South line		rom the	East/West I		County
D	15	18 S	32 E		660	NORTH	3	30	WEST		LEA
12 Dedicated Acres	Joint or	r Infili	⁴ Consolidation	Code 15 C	order No.						
160											
	ОТТОМ	LAT. = 3	JER SEC. 15 12'45'17.13"N 103'45'46.18"\ ST (FT)	LAT.	CORNER SEC. 15 = 3245'17.00"N = 103'44'44.38"W NMSP EAST (FT)	SURFACE 29	/ /III	I hereby certify to the best of a	y that the information my knowledge and ha	n contained h dief, and that	FICATION herein is true and complete this organization either erest in the land including
330	F HOLE	N = 638	778.54	1	NMSP EAST (FT) N = 638793.70 E = 722011.20	330'	4		-		t to drill this well at this
BOTTOM OF LAT. = 32'45'		- 						-		-	f such a mineral or working
LONG. $= 103'4$	5'42.31"W	 		EV. Z.	_	15" FED. #21	/N/ II		a voluntary pooling or re entered by the div	••	a compulsory parding
NMSP EAST (F N = 638119.69 E = 717066.48	3-77	-//	LA LA	T. <i>≐</i> ′32	2*45'10.'478'		-41				
= /1/000.40	,	! !		NG. = SP EAST (103°44'48.2 (FT)	29″W					
		! !	N :	= 638132 = 721685	.95	 			a . /	/	
1] 	- -	Signature	ang l	my	B/26/10
		 		!		<u> </u> 		Printed Name	SPENC	E LAI	IRD
		 		- <u> </u>			1 11				FICATION
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<u> </u>		 		<u> </u>		 	111.	JULY 28 20 Date of Stury	NI IVI	EX	Peter
SW CORNER SE LAT. = 32'44'2 LONG. = 103'45	4.90"N					SE CORNER SEC LAT. = 32'44'24.	. 15 78 N		127	97\ Marij	sillo
NMSP EAST (FI N = 633498.43 E = 716766.41	')			1 1 1		LONG. = 103'44'44. NMSP EAST N = 63351 E = 72204	(FT) 5.93		E COLIMO	Men/fra	MILLO, PLS 12797 SURVEY NO. 172

HOBRACON 1000 NOV 5 5 2010

DRILLING PROGRAM

Devon Energy Production Company, LP

West Shinnery 15 Fed #2H

Surface Location: 660' FNL & 330' FEL, Unit A, Sec 15 T18S R23E, Lea, NM Bottom hole Location: 660' FNL & 330' FWL, Unit D, Sec 15 T18S R23E, Lea, NM 32

1. Geologic Name of Surface Formation

a. Quanternary

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

a.	Rustler	1190'	FW
b.	Salado	2060'	Salt
c.	Base Salt	2750'	Salt
d.	Yates	2800'	Oil
e.	Queen	3900'	Oil
f.	Greyburg	4380'	Oil
g.	Delaware	4870'	Oil
_	Bone Springs	6750'	Oil
i.	1 st Bone Spring SD	8290'	Oil
j.	2 nd Bone Spring SD	8970'	Oil
	2 nd Bone Spring Lower SD	9067'	Oil
1.	2 nd Bone Spring SD (pay tgt)	9228'	Oil
m.	Total Depth of Pilot Hole	9400'	
n.	Depth of entry point of pay tgt	9115'	
0.	Total Depth of production	TVD 9187' MD	13596'
	- -		

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 1350" and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 4800' and circulating cement to surface. The Bone Springs intervals will be isolated by setting 5 ½" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. Casing Program:

Hole Size	Hole	OD Csg	Casing	Weight	<u>Collar</u>	<u>Grade</u>
	<u>Interval</u>		Interval	Jee Co		
17 1/2"	0'-1350	13 3/8"	0'-1350-126	54 4 54	STC STC	J-55
12 1/4"	1350'-4800'	9 5/8"	1350°-4800°	40#	BTC	N-80
8 3/4"	4800'-9400' (PH)	9>5#829	0			
8 3/4"	0' -8600'	5 ½"	0-8600	17#	LTC	P-110
8 3/4**	8600'- 13600'	5 ½"	8600'-13600'	17#	BTC	P-110
			13597			

Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design
			Factor
13 3/8"	1.79	4.32	6.99
9 5/8"	1.23	2.30	5.09
5 ½"	1.33	1.74	2.01

4. Cement Program:

See COA

Cementing Program for the Pilot Hole:

520 sacks Class H, 18 ppg with a .9 cuft yield.

a. 13 3/8" Surface

Lead: 915 sacks (40:60) Poz (Fly Ash):Premium Plus C Cement + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 5% bwow Sodium Chloride + 0.8% bwoc Sodium Metasilicate + 5% bwoc MPA-5 + 101.1% Fresh Water.

Yield: 1.83 cf/sack. TOC @ surface.

Tail: 300 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125

lbs/sack Cello Flake + 56.3% Fresh Water

Yield: 1.35 cf/sack.

b. 9 5/8" Intermediate

Lead: 1305 sacks (40:60) Poz (Fly Ash): Premium Plus C Cement + 5% bwow

Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh

Water

Yield: 1.73 cf/sack. TOC @ surface.

Tail: 300 sacks (40:60) C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water

Yield: 1.35 cf/sack.

c. 5 1/2" Production

1st Stage

Lead: 655 sacks 35:65 Poz Class C + 0.2% bwoc Sodium Metasilicate + 1.4% bwoc

FL-62 + 0.4%

Yield: 2.00 cf/sack.

Tail: 1135 sacks 50:50 Poz Class C

Yield:1.28 cf/sack

DV TOOL at ~6000'

2nd Stage See COA

Lead: 190 sacks Poz Class C Cement + 0.125 lbs/sack Cello Flake + 3

6% bwoc Bentonite + 0.4% bwoc FL-52A + 99.3% Fresh Water

Yield: 2.89 cf/sk

Tail: 150 sacks (60:40) Poz Class C Cement + 1% bwow Sodium Chloride + 0.15% bwoc + 63.2% Fresh Water

Yield: 1.35 cf/sk

TOC for All Strings:

Surface: 0'
Intermediate: 0'
Production 2800'

The above cement volumes could be revised pending the caliper measurement from the open hole logs. Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

5. Pressure Control Equipment:

BOP DESIGN: The 13 3/8" casing will have a 3,000# (Hydril) annular preventer which will be tested to 2000#. The blow out prevention system for the 9 5/8" casing will consist of a bag type (Hydril) preventer, a double ram preventer stack, and a rotating head. Both the Hydril and ram stack will be hydraulically operated. The 9 5/8" BOP system will be rated at 5,000psi. Prior to drilling out the 9 5/8" intermediate shoe, the ram stack will be nippled up with 4.5" pipe rams installed. The Hydril will be tested to 1000psi (high) and 250psi (low). Tests on the 5000psi BOP will be conducted per the BLM Drilling Operations Order #2. All testing will be performed by independent testers, not the rig pumps.

The ram system 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 hydril, other BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5000 psi WP

6. Proposed Mud Circulation System

Depth	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
0° - 1350° 128	8.4-9.0	32-34	NC	Fresh Water
1280 1350-4800	10.0	28-30	NC	Brine
4800'-13000'	8.6-9.2	28	NC-12	Fresh Water/Brime

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

7. Auxiliary Well Control and Monitoring Equipment:

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

8. Logging, Coring, and Testing Program:

a. Drill stem tests will be based on geological sample shows.



- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open-hole electrical logging program will be:
- d. -Drill-stem tests will be based on geological sample shows.
- e. 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.
- The open hole electrical logging program will be: See COA

drill this well. Estimated BHP 3900 psi and Estimated BHT 170°.

- i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
- ii. Total Depth to Surface

Compensated Neutron with Gamma Ray

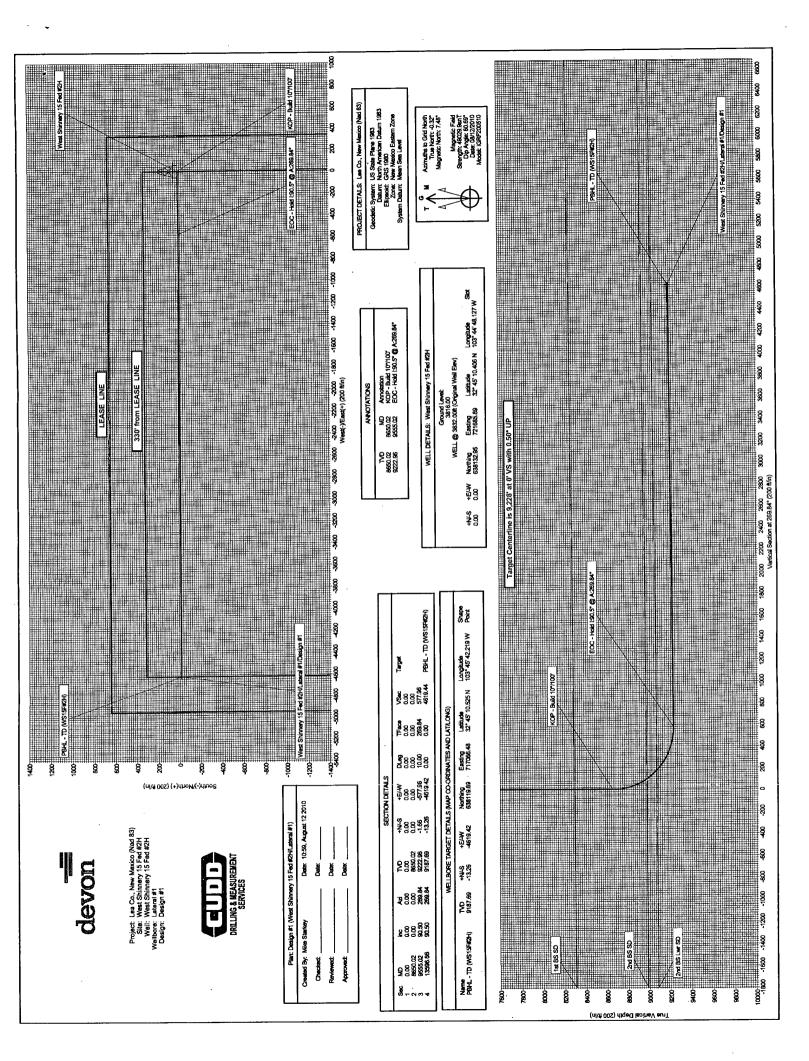
- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. **Potential Hazards:**

See COA a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area; therefore, no H2S is anticipated to be encountered. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to

10. **Anticipated Starting Date and Duration of Operations:**

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





Devon Energy

Lea Co., New Mexico (Nad 83) West Shinnery 15 Fed #2H West Shinnery 15 Fed #2H

Lateral #1

Plan: Design #1

Standard Survey Report

12 August, 2010

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CUDD Drilling & Measurement Services

Survey Report



Company: Project:

Devon Energy

Lea Co., New Mexico (Nad 83)

Site: Well: West Shinnery 15 Fed #2H West Shinnery 15 Fed #2H

Wellbore: Design:

Lateral #1 Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site West Shinnery 15 Fed #2H

WELL @ 3832.00ft (Original Well Elev)

WELL @ 3832.00ft (Original Well Elev)

Minimum Curvature

EDM 2003.21 Single User Db

Project Lea Co., New Mexico (Nad 83)

Map System: Geo Datum: Map Zone:

US State Plane 1983 North American Datum 1983

New Mexico Eastern Zone

System Datum:

Mean Sea Level

West Shinnery 15 Fed #2H, Sec 15, T-18S, R-32E Site

Site Position:

Well Position

Dianned Survey

08/12/10 10:50:28AM

From:

Well

Мар

+N/-S

+E/-W

Northing:

Easting:

638,132.95 ft 721,685.89 ft

Latitude:

Longitude:

32° 45' 10.406 N

103° 44' 48.127 W 0.32°

Position Uncertainty:

0.00 ft

Slot Radius:

Grid Convergence:

West Shinnery 15 Fed #2H

0.00 ft

0.00 ft

Northing:

Easting:

638,132.95 ft 721,685.89 ft

Latitude: Longitude:

32° 45' 10.406 N 103° 44' 48.127 W

Position Uncertainty

0.00 ft

Wellhead Elevation:

3,832.00 ft

Ground Level:

3,816.00 ft

Wellbore	Lateral #1	The second secon	The second secon	the second section of the second section s	
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	08/12/10	7.80	60.69	49,030

Design	Design #1				· · ·
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	i is i i i i i i i i i i i i i i i i i
	(ft)	(ft)	(ft)	(°)	
No. of the contract of the con	0.00	0.00	0.00	269.84	

Survey Tool Program	Date	08/12/10		
From (ft)	To (ft) Surve	y (Wellbore)	Tool Name	Description
0.00 8,500.00	8,500.00 Design 13,596.66 Design	• •	NS-GYRO-MS CUDD MWD	North sensing gyrocompassing m/s MWD - Standard CUDD MWD

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing 4,870.00	0.00	0.00	4,870.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware 6,750.00	0.00	0.00	6,750.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring 8,290.00	0.00	0.00	8,290.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SD									
8,650.02	0.00	0.00	8,650.02	0.00	0.00	0.00	0.00	0.00	0.00



CUDD Drilling & Measurement Services

Survey Report



Company: Project: Devon Energy

Site: Well: Lea Co., New Mexico (Nad 83) West Shinnery 15 Fed #2H West Shinnery 15 Fed #2H

Wellbore: Design: Lateral #1 Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

Site West Shinnery 15 Fed #2H

WELL @ 3832.00ft (Original Well Elev)

WELL @ 3832.00ft (Original Well Elev)

Grid

Minimum Curvature

EDM 2003.21 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,988.50	33.85	269.84	8,969.15	-0.28	-97.10	97.10	10.00	10.00	0.00
2nd BS SD									
9,114.75	46.47	269.84	9;065.44	-0.51	-178.36	178.36	10.00	10.00	0.00
2nd BS Lwr	SD				-				
9,555.02	90.50	269.84	9,222.96	-1.66 ,	-577.95	577.95	10.00	10.00	0.00
EOC - Hold I	:90.5* @ A:269.8	34*							
13,596.66	90.50	269.84	9,187.69	-13.26	-4,619.42	4,619.44	0.00	0.00	0.00

Design Targets		The same of the same of the same			parch on the Nation - 1889 c	THE PERSON NAMED AND POST OF THE PERSON NAMED AND PARTY.			
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL - TD (WS15F#2H - plan hits target ce - Point	•	0.00	9,187.69	-13.26	-4,619.42	638,119.69	717,066.48	32° 45′ 10.525 N	103° 45′ 42.219 W

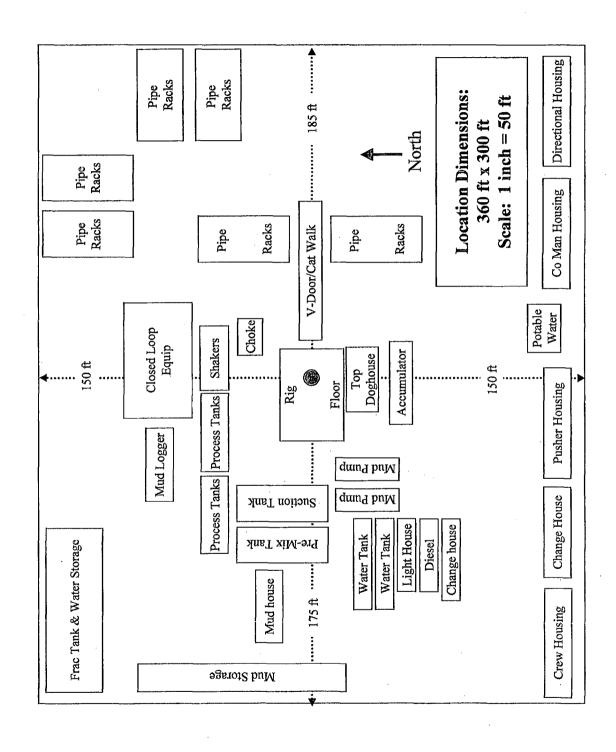
Casing Points					and an area of the second of t	- A congress on the contract of the contract o	
	Measured	Vertical			Casing	Hole	
	Depth	Depth			Diameter	Diameter	
	(ft)	(ft)		Name			
	4,100.00	4,100.00	9 5/8" Casing		9-5/8	12-1/4	

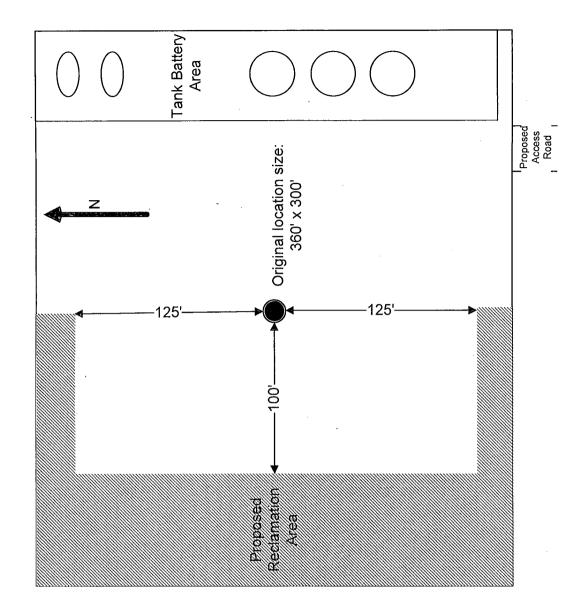
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(ft)	(ft)	Name	Lithology	(°)	(°)
aberieran biren ete	4,870.00	4,870.00	Delaware		-0.50	270.00
	6,750.00	6,750.00	Bone Spring		-0.50	270.00
	8,290.00	8,290.00	1st BS SD		-0.50	270.00
	8,988.50	8,970.00	2nd BS SD		-0.50	270.00
	9,114.75	9,067.00	2nd BS Lwr SD		-0.50	270.00
	•	-				

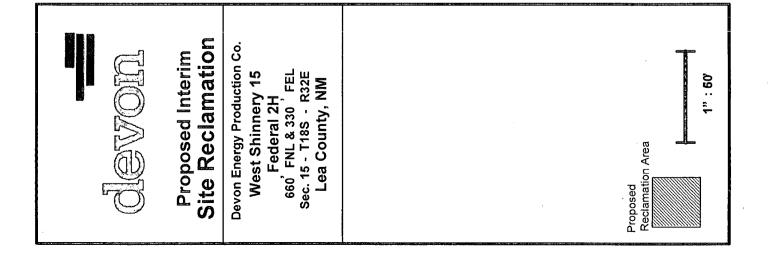
Measured	Vertical	Local Coor	dinates					
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment		*		
8,650.02 9,555.02	8,650.02 9,222.96	0.00 -1.66	0.00 -577.95	KOP - Build 10*/100' EOC - Hold I:90.5* @ A:269.84*	The section of the section of the section of	en mater - America	tent on our orth	, p. m.

Checked By:	Approved By:	Date:	

Conventional Rig Location Layout







Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

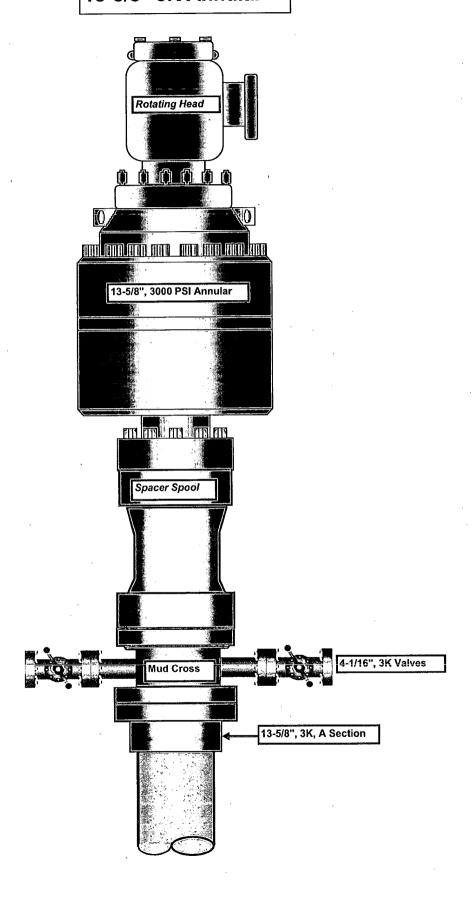
Devon Energy Production Company, LP

West Shinnery 15 Fed #2H

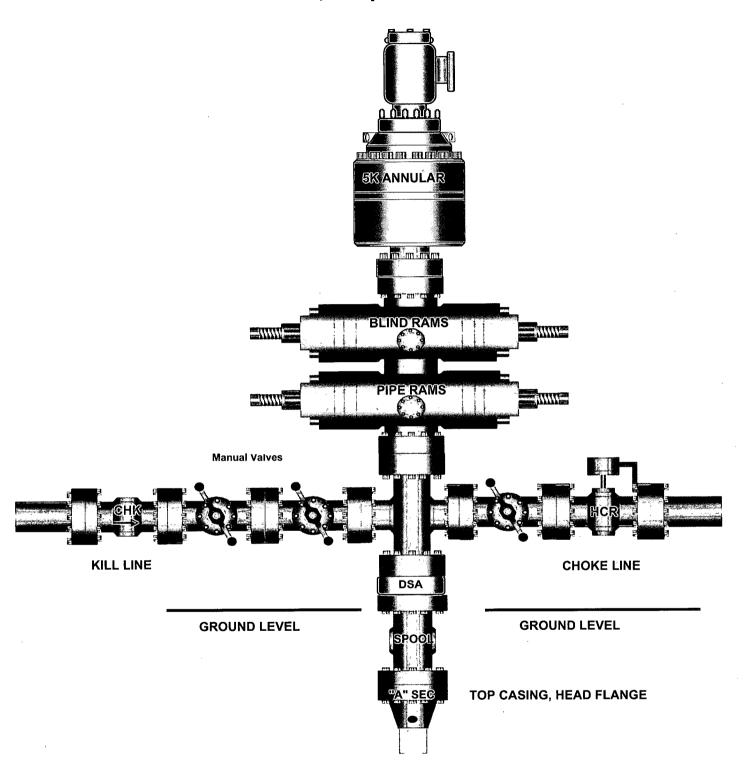
Surface Location: 660' FNL & 330' FEL, Unit A, Sec 15 T18S R23E, Lea, NM Bottom hole Location: 660' FNL & 330' FWL, Unit D, Sec 15 T18S R23E, Lea, NM

- 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 fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 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.

13-5/8" 3K Annular



11" x 5,000 psi BOP Stack



5,000 PSI CHOKE MANIFOLD

