15-638

HOBBS OCD

SEP 17 2015

RECEIVED

Form 3160-3
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM012568A, NMNM081599

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. (315266)
Crazy Wolf 1/2 B2CD Fed Com #1H

2. Name of Operator Mewbourne Oil Company (14744)

9. API Well No.
30-025-42793

3a. Address
PO Box 5270
Hobbs, NM 88241

3b. Phone No. *(include area code)*
575-393-5905

10. Field and Pool, or Exploratory
Lusk East Bone Spring (41442)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface 1301' FNL & 2570' FEL, Sec 1 T19S R32E

At proposed prod. zone 500' FNL & 330' FWL, Sec 2 T19S R32E

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 1 T19S R32E

14. Distance in miles and direction from nearest town or post office*
32 miles west of Hobbs, NM

12. County or Parish
Lea

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
71.85'

16. No. of acres in lease
NMNM012568A-440 acres
NMNM081599-200 acres

17. Spacing Unit dedicated to this well
480 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
311' - Boundurant Fed #8

19. Proposed Depth
9620' - TVD
17,257' - MD

20. BLM/BIA Bond No. on file
NM-1693 nationwide, NMB-000919

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3694' - GL

22. Approximate date work will start*
07/11/2015

23. Estimated duration
60 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature Bradley Bishop
Name *(Printed/Typed)* Bradley Bishop
Date 05/11/2015

Title

Approved by *(Signature)* Steve Caffey
Name *(Printed/Typed)*
Date SEP 16 2015

Title FIELD MANAGER
Office CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

KA 09/18/15

SEE ATTACHED FOR CONDITIONS OF APPROVAL

BLM KA

Approval Subject to General Requirements & Special Stipulations Attached

SEP 21 2015

Mewbourne Oil Company, Crazy Wolf 1/2 B2CD Fed Com 1H
Sec 1, T19S, R32E
SL: 1301' FNL & 2570' FEL, Sec 1
BHL: 330' FNL & 330' FWL, Sec 2

1. Geologic Formations

TVD of target	9620'	Pilot hole depth	NA
MD at TD:	17257'	Deepest expected fresh water:	300'

Reef

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Alluvium	Surface	Water	
Rustler	1335	Water	
Top of Salt	1455		
Tansill	NP		
Yates	3165	Oil	
Seven Rivers	3560		
Capitan Reef	NP	Water	
Delaware Group	5725	Oil/Gas	
Bone Spring	7335	Oil/Gas	
2nd Bone Spring	9235	Target Zone	
Wolfcamp		Will Not Penetrate	
Cisco			
Canyon			
Strawn			
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Crazy Wolf 1/2 B2CD Fed Com 1H
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2. Casing Program

Hole Size	Casing Interval From	To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0'	1265'	13.375"	48	H40	STC	1.13	2.63	4.89
17.5"	1265'	1360'	13.375"	54.5	J55	STC	1.60	3.86	99.23
12.25"	0'	3215'	9.625"	36	J55	LTC	1.21	2.11	3.91
8.75"	0'	9143'	7"	26	HCP110	LTC	1.64	2.09	1.84
8.75"	9143'	9893'	5.5"	17	P110	BTC	1.50	2.13	3.96
8.75"	9893'	17257'	5.5"	17	P110	LTC	1.50	2.13	3.55
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

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

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	770	12.5	2.12	11	10	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 5% Sodium Chloride +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	5	Tail: Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
Inter.	470	12.5	2.12	11	10	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 5% Sodium Chloride +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	5	Tail: Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
Prod.	1300	11.2	2.97	18	16	Class C (60:40:0)+4% MPA5+1.2% BA10A+10#/sk BA90+5%A10+0.65%ASA301+1.5%SMS+1.2%R21

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	3015'	25%

Mewbourne Oil Company, Crazy Wolf 1/2 B2CD Fed Com 1H
Sec 1, T19S, R32E
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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	2M	Annular	X	1250#
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	11"	3M	Annular	X	1500#
			Blind Ram	X	
			Pipe Ram	X	
			Double Ram		3000#
			Other *		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other *		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in

	accordance with Onshore Oil and Gas Order #2 III.B.1.i.
N	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	Y /N Are anchors required by manufacturer?
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1360	FW Gel	8.6-8.8	28-34	N/C
1360	3215	BW	10.0	29-34	N/C
3215	9143	Cut Brine	9.0-9.5	28-34	N/C
9143	17257	FW w/polymer	9.0-9.5	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP to surface. Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	GR	From KOP(9143) to TD
	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4137 psi
Abnormal Temperature	No

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
	H2S is present
	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe.
Will be pre-setting casing? If yes, describe.

Attachments
___ Directional Plan
___ Other, describe

Mewbourne Oil Company, Crazy Wolf 1/2 B2CD Fed Com 1H
Sec 1, T19S, R32E
SL: 1301' FNL & 2570' FEL, Sec 1
BHL: 330' FNL & 330' FWL, Sec 2

Mewbourne Oil Company

Lea County, New Mexico
Crazy Wolf 1/2 B2CD Fed Com 1H
Sec 1, T19S, R32E
SL: 1301' FNL & 2570' FEL, Sec 1
BHL: 330' FNL & 330' FWL, Sec 2

Plan: Design #1

Standard Planning Report

05 May, 2015

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Crazy Wolf 1/2 B2CD Fed Com 1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3718.0usft (Original Well Elev)
Project:	Lea County, New Mexico	**MD Reference:**	WELL @ 3718.0usft (Original Well Elev)
Site:	Crazy Wolf 1/2 B2CD Fed Com 1H	**North Reference:**	Grid
Well:	Sec 1, T19S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 2		
Design:	Design #1		

Project Lea County, New Mexico

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Crazy Wolf 1/2 B2CD Fed Com 1H

Site Position:		**Northing:**	616,344.20 usft	**Latitude:**	32° 41' 34.529 N
From:	Map	**Easting:**	688,974.80 usft	**Longitude:**	103° 43' 8.643 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.33 °

Well Sec 1, T19S, R32E

Well Position	**+N/-S**	0.0 usft	**Northing:**	616,344.20 usft	**Latitude:**	32° 41' 34.529 N
	+E/-W	0.0 usft	**Easting:**	688,974.80 usft	**Longitude:**	103° 43' 8.643 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,718.0 usft	**Ground Level:**	3,693.0 usft

Wellbore BHL: 330' FNL & 330' FWL, Sec 2

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/5/2015	7.21	60.50	48,491

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	277.05

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,142.5	0.00	0.00	9,142.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,892.9	90.04	307.41	9,620.0	290.3	-379.6	12.00	12.00	0.00	-52.59	LP: 1009 FNL & 2335
10,748.0	91.02	273.22	9,611.8	582.7	-1,169.6	4.00	0.11	-4.00	-88.25	BHL: 330 FNL & 330 I
17,257.0	91.11	273.22	9,491.0	947.7	-7,667.2	0.00	0.00	0.00	0.00	BHL: 330 FNL & 330 I

Database:	Hobbs	Local Co-ordinate Reference:	Site Crazy Wolf 1/2 B2CD Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3718.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3718.0usft (Original Well Elev)
Site:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 1301 FNL & 2570 FEL, Sec 1									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

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Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,142.5	0.00	0.00	9,142.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 9143									
9,200.0	6.90	307.41	9,199.9	2.1	-2.7	3.0	12.00	12.00	0.00
9,300.0	18.90	307.41	9,297.2	15.6	-20.4	22.2	12.00	12.00	0.00
9,400.0	30.90	307.41	9,387.7	41.2	-53.8	58.5	12.00	12.00	0.00
9,500.0	42.90	307.41	9,467.5	77.6	-101.4	110.2	12.00	12.00	0.00
9,600.0	54.90	307.41	9,533.1	123.3	-161.2	175.1	12.00	12.00	0.00
9,700.0	66.90	307.41	9,581.7	176.2	-230.5	250.3	12.00	12.00	0.00
9,800.0	78.89	307.41	9,611.1	234.2	-306.2	332.7	12.00	12.00	0.00
9,892.9	90.04	307.41	9,620.0	290.3	-379.6	412.3	12.00	12.00	0.00
LP: 1009 FNL & 2335 FWL, Sec 1									
9,900.0	90.05	307.12	9,620.0	294.6	-385.2	418.5	4.00	0.12	-4.00
9,924.5	90.08	306.14	9,620.0	309.2	-404.9	439.7	4.00	0.12	-4.00
First Take Point: 990 FNL & 2310 FWL									

Database:	Hobbs	Local Co-ordinate Reference:	Site Crazy Wolf 1/2 B2CD Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3718.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3718.0usft (Original Well Elev)
Site:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	90.17	303.12	9,619.8	352.1	-467.0	506.7	4.00	0.12	-4.00
10,100.0	90.29	299.13	9,619.4	403.8	-552.6	597.9	4.00	0.12	-4.00
10,200.0	90.41	295.13	9,618.8	449.4	-641.6	691.8	4.00	0.12	-4.00
10,300.0	90.53	291.13	9,617.9	488.6	-733.5	787.9	4.00	0.12	-4.00
10,400.0	90.65	287.13	9,616.9	521.4	-828.0	885.7	4.00	0.12	-4.00
10,500.0	90.76	283.13	9,615.7	547.5	-924.5	984.7	4.00	0.11	-4.00
10,600.0	90.87	279.13	9,614.3	566.8	-1,022.6	1,084.4	4.00	0.11	-4.00
10,700.0	90.97	275.13	9,612.7	579.2	-1,121.8	1,184.3	4.00	0.10	-4.00
10,748.0	91.02	273.22	9,611.8	582.7	-1,169.6	1,232.2	4.00	0.10	-4.00
10,800.0	91.02	273.22	9,610.9	585.6	-1,221.5	1,284.1	0.00	0.00	0.00
10,900.0	91.02	273.22	9,609.1	591.2	-1,321.4	1,383.9	0.00	0.00	0.00
11,000.0	91.02	273.22	9,607.3	596.8	-1,421.2	1,483.7	0.00	0.00	0.00
11,100.0	91.02	273.22	9,605.6	602.4	-1,521.0	1,583.4	0.00	0.00	0.00
11,200.0	91.03	273.22	9,603.8	608.0	-1,620.8	1,683.2	0.00	0.00	0.00
11,300.0	91.03	273.22	9,602.0	613.6	-1,720.7	1,782.9	0.00	0.00	0.00
11,400.0	91.03	273.22	9,600.2	619.3	-1,820.5	1,882.7	0.00	0.00	0.00
11,500.0	91.03	273.22	9,598.4	624.9	-1,920.3	1,982.5	0.00	0.00	0.00
11,600.0	91.03	273.22	9,596.6	630.5	-2,020.1	2,082.2	0.00	0.00	0.00
11,700.0	91.03	273.22	9,594.8	636.1	-2,120.0	2,182.0	0.00	0.00	0.00
11,800.0	91.03	273.22	9,593.0	641.7	-2,219.8	2,281.7	0.00	0.00	0.00
11,900.0	91.04	273.22	9,591.2	647.3	-2,319.6	2,381.5	0.00	0.00	0.00
12,000.0	91.04	273.22	9,589.4	652.9	-2,419.4	2,481.3	0.00	0.00	0.00
12,100.0	91.04	273.22	9,587.6	658.5	-2,519.3	2,581.0	0.00	0.00	0.00
12,200.0	91.04	273.22	9,585.7	664.1	-2,619.1	2,680.8	0.00	0.00	0.00
12,300.0	91.04	273.22	9,583.9	669.7	-2,718.9	2,780.5	0.00	0.00	0.00
12,400.0	91.04	273.22	9,582.1	675.3	-2,818.7	2,880.3	0.00	0.00	0.00
12,500.0	91.04	273.22	9,580.3	680.9	-2,918.6	2,980.1	0.00	0.00	0.00
12,600.0	91.04	273.22	9,578.5	686.5	-3,018.4	3,079.8	0.00	0.00	0.00
12,700.0	91.05	273.22	9,576.6	692.2	-3,118.2	3,179.6	0.00	0.00	0.00
12,800.0	91.05	273.22	9,574.8	697.8	-3,218.1	3,279.3	0.00	0.00	0.00
12,900.0	91.05	273.22	9,573.0	703.4	-3,317.9	3,379.1	0.00	0.00	0.00
13,000.0	91.05	273.22	9,571.2	709.0	-3,417.7	3,478.9	0.00	0.00	0.00
13,100.0	91.05	273.22	9,569.3	714.6	-3,517.5	3,578.6	0.00	0.00	0.00
13,200.0	91.05	273.22	9,567.5	720.2	-3,617.4	3,678.4	0.00	0.00	0.00
13,300.0	91.05	273.22	9,565.6	725.8	-3,717.2	3,778.1	0.00	0.00	0.00
13,400.0	91.06	273.22	9,563.8	731.4	-3,817.0	3,877.9	0.00	0.00	0.00
13,500.0	91.06	273.22	9,562.0	737.0	-3,916.8	3,977.7	0.00	0.00	0.00
13,600.0	91.06	273.22	9,560.1	742.6	-4,016.7	4,077.4	0.00	0.00	0.00
13,700.0	91.06	273.22	9,558.3	748.2	-4,116.5	4,177.2	0.00	0.00	0.00
13,800.0	91.06	273.22	9,556.4	753.8	-4,216.3	4,276.9	0.00	0.00	0.00
13,900.0	91.06	273.22	9,554.6	759.5	-4,316.1	4,376.7	0.00	0.00	0.00
14,000.0	91.06	273.22	9,552.7	765.1	-4,416.0	4,476.5	0.00	0.00	0.00
14,100.0	91.07	273.22	9,550.8	770.7	-4,515.8	4,576.2	0.00	0.00	0.00
14,200.0	91.07	273.22	9,549.0	776.3	-4,615.6	4,676.0	0.00	0.00	0.00
14,300.0	91.07	273.22	9,547.1	781.9	-4,715.4	4,775.7	0.00	0.00	0.00
14,400.0	91.07	273.22	9,545.3	787.5	-4,815.3	4,875.5	0.00	0.00	0.00
14,500.0	91.07	273.22	9,543.4	793.1	-4,915.1	4,975.3	0.00	0.00	0.00
14,600.0	91.07	273.22	9,541.5	798.7	-5,014.9	5,075.0	0.00	0.00	0.00
14,700.0	91.07	273.22	9,539.7	804.3	-5,114.7	5,174.8	0.00	0.00	0.00
14,800.0	91.07	273.22	9,537.8	809.9	-5,214.6	5,274.5	0.00	0.00	0.00
14,900.0	91.08	273.22	9,535.9	815.5	-5,314.4	5,374.3	0.00	0.00	0.00
15,000.0	91.08	273.22	9,534.0	821.1	-5,414.2	5,474.1	0.00	0.00	0.00
15,100.0	91.08	273.22	9,532.1	826.7	-5,514.0	5,573.8	0.00	0.00	0.00
15,200.0	91.08	273.22	9,530.3	832.4	-5,613.9	5,673.6	0.00	0.00	0.00

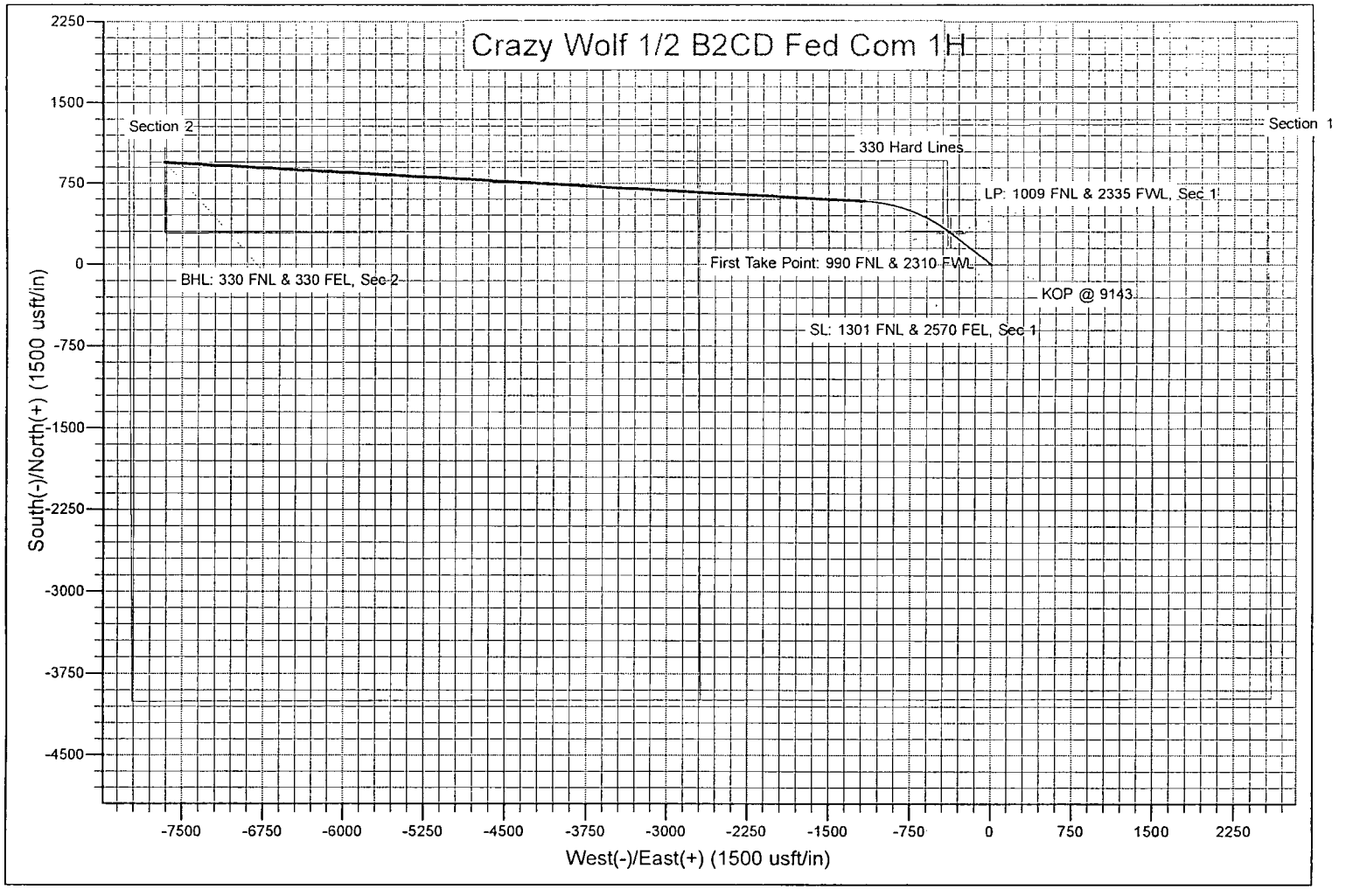
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Crazy Wolf 1/2 B2CD Fed Com 1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 37.18.0usft (Original Well Elev)
Project:	Lea County, New Mexico	**MD Reference:**	WELL @ 37.18.0usft (Original Well Elev)
Site:	Crazy Wolf 1/2 B2CD Fed Com 1H	**North Reference:**	Grid
Well:	Sec 1, T19S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 2		
Design:	Design #1		

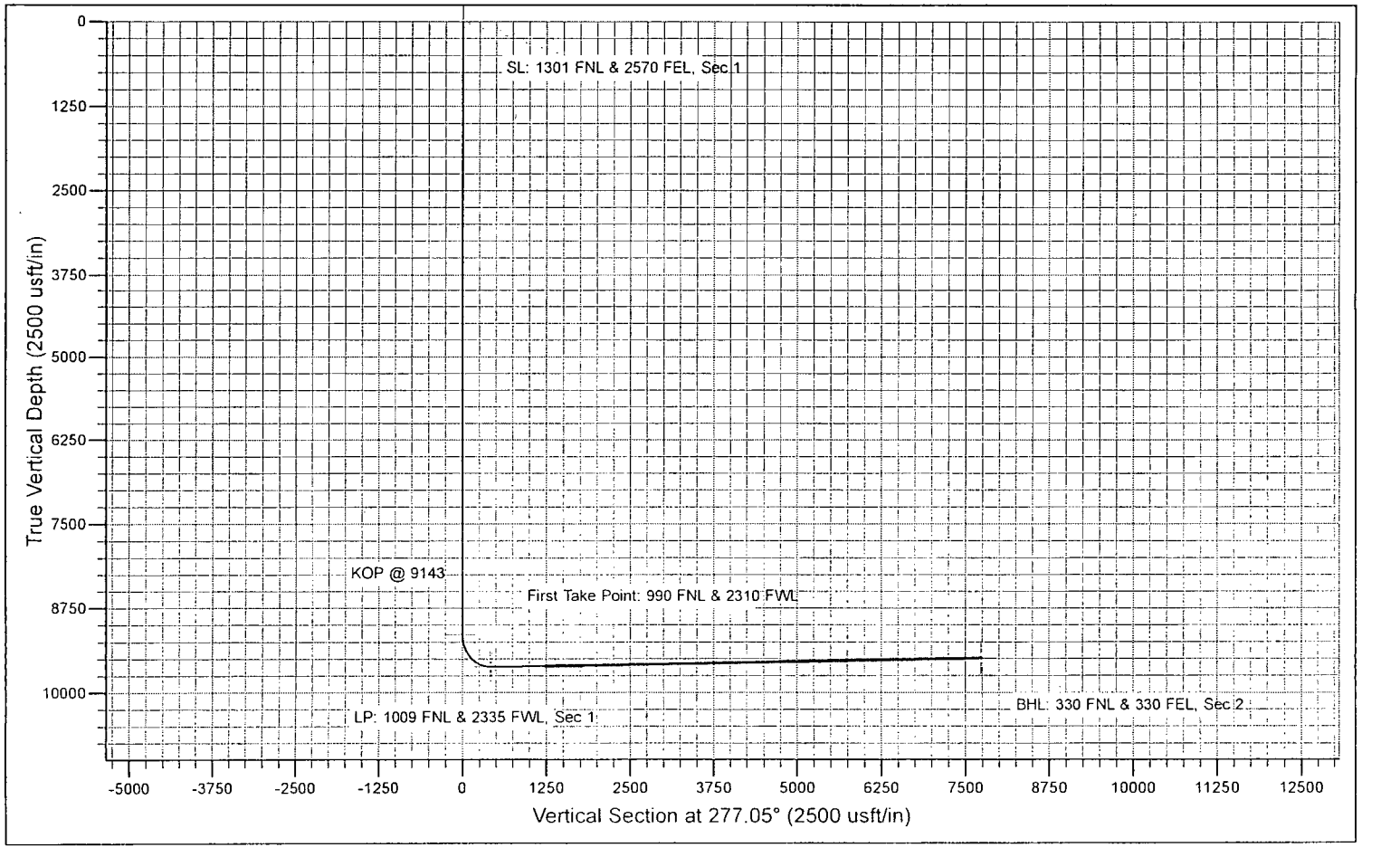
Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,300.0	91.08	273.22	9,528.4	838.0	-5,713.7	5,773.3	0.00	0.00	0.00
15,400.0	91.08	273.22	9,526.5	843.6	-5,813.5	5,873.1	0.00	0.00	0.00
15,500.0	91.08	273.22	9,524.6	849.2	-5,913.3	5,972.8	0.00	0.00	0.00
15,600.0	91.09	273.22	9,522.7	854.8	-6,013.2	6,072.6	0.00	0.00	0.00
15,700.0	91.09	273.22	9,520.8	860.4	-6,113.0	6,172.4	0.00	0.00	0.00
15,800.0	91.09	273.22	9,518.9	866.0	-6,212.8	6,272.1	0.00	0.00	0.00
15,900.0	91.09	273.22	9,517.0	871.6	-6,312.6	6,371.9	0.00	0.00	0.00
16,000.0	91.09	273.22	9,515.1	877.2	-6,412.5	6,471.6	0.00	0.00	0.00
16,100.0	91.09	273.22	9,513.2	882.8	-6,512.3	6,571.4	0.00	0.00	0.00
16,200.0	91.09	273.22	9,511.3	888.4	-6,612.1	6,671.2	0.00	0.00	0.00
16,300.0	91.09	273.22	9,509.4	894.0	-6,711.9	6,770.9	0.00	0.00	0.00
16,400.0	91.10	273.22	9,507.5	899.7	-6,811.8	6,870.7	0.00	0.00	0.00
16,500.0	91.10	273.22	9,505.6	905.3	-6,911.6	6,970.4	0.00	0.00	0.00
16,600.0	91.10	273.22	9,503.6	910.9	-7,011.4	7,070.2	0.00	0.00	0.00
16,700.0	91.10	273.22	9,501.7	916.5	-7,111.2	7,169.9	0.00	0.00	0.00
16,800.0	91.10	273.22	9,499.8	922.1	-7,211.1	7,269.7	0.00	0.00	0.00
16,900.0	91.10	273.22	9,497.9	927.7	-7,310.9	7,369.5	0.00	0.00	0.00
17,000.0	91.10	273.22	9,496.0	933.3	-7,410.7	7,469.2	0.00	0.00	0.00
17,100.0	91.11	273.22	9,494.0	938.9	-7,510.5	7,569.0	0.00	0.00	0.00
17,200.0	91.11	273.22	9,492.1	944.5	-7,610.4	7,668.7	0.00	0.00	0.00
17,257.0	91.11	273.22	9,491.0	947.7	-7,667.2	7,725.6	0.00	0.00	0.00
BHL: 330 FNL & 330 FEL, Sec 2									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 1301 FNL & 2570 FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	616,344.20	688,974.80	32° 41' 34.529 N	103° 43' 8.643 W
KOP @ 9143 - plan hits target center - Point	0.00	0.00	9,142.5	0.0	0.0	616,344.20	688,974.80	32° 41' 34.529 N	103° 43' 8.643 W
BHL: 330 FNL & 330 FE - plan hits target center - Point	0.00	0.00	9,491.0	947.7	-7,667.2	617,291.91	681,307.58	32° 41' 44.337 N	103° 44' 38.298 W
LP: 1009 FNL & 2335 F\ - plan hits target center - Point	0.00	0.00	9,620.0	290.3	-379.6	616,634.47	688,595.22	32° 41' 37.423 N	103° 43' 13.065 W
First Take Point: 990 FN - plan misses target center by 0.4usft at 9924.5usft MD (9620.0 TVD, 309.2 N, -404.9 E) - Point	0.00	0.00	9,620.0	309.5	-404.6	616,653.68	688,570.17	32° 41' 37.614 N	103° 43' 13.356 W


Crazy Wolf 1/2 B2CD Fed Com 1H
Section 2
Section 1
330 Hard Lines
LP: 1009 FNL & 2335 FWL, Sec 1
First Take Point: 990 FNL & 2310 FWL
BHL: 330 FNL & 330 FEL, Sec 2
KOP @ 9143
SL: 1301 FNL & 2570 FEL, Sec 1
South(-)/North(+) (1500 usft/in)
West(-)/East(+) (1500 usft/in)
2250
1500
750
0
-750
-1500
-2250
-3000
-3750
-4500
-7500
-6750
-6000
-5250
-4500
-3750
-3000
-2250
-1500
-750
0
750
1500
2250


SL: 1301 FNL & 2570 FEL, Sec 1
KOP @ 9143
First Take Point: 990 FNL & 2310 FWL
LP: 1009 FNL & 2335 FWL, Sec 1
BHL: 330 FNL & 330 FEL, Sec 2
True Vertical Depth (2500 usft/in)
Vertical Section at 277.05° (2500 usft/in)
0
1250
2500
3750
5000
6250
7500
8750
10000
-5000
-3750
-2500
-1250
0
1250
2500
3750
5000
6250
7500
8750
10000
11250
12500

Mewbourne Oil Company

PO Box 5270
Hobbs, NM 88241
(575) 393-5905

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently 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 the company I represent, 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.

Executed this 11 day of May, 2015.

Name: Robin Terrell

Signature: B.B. for RT

Position Title: Hobbs District Manager

Address: PO Box 5270, Hobbs NM 88241

Telephone: 575-393-5905

E-mail: rterrell@mewbourne.com

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E Greene Street
Carlsbad, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name: Mewbourne Oil Company
Street or Box: P.O. Box 5270
City, State: Hobbs, New Mexico
Zip Code: 88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number: NMNM 012568A & NMNM 081599

Legal Description of Land: Section 1, T-19S, R-32E Lea County, New Mexico.
Location @ 1301' FNL & 2570' FEL.

Formation (if applicable): Bone Spring

Bond Coverage: $150,000

BLM Bond File: NM1693 nationwide, NMB000919

Authorized Signature: B. R FOR RT
Name: Robin Terrell
Title: District Manager
Date: 5-11-15.