

ATS 14-280

OCD Hobbs

Form 3160-3
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

UNORTHODOX
LOCATION

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.
L-4333, NM0556297, NM17466-A

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

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

2. Name of Operator Mewbourne Oil Company

3a. Address PO Box 5270
Hobbs, NM 88241

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

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

At surface 1160' FSL & 150' FWL, Sec. 21 T23S R34E

At proposed prod. zone 330' FSL & 330' FEL, Sec. 21 T23S R34E

14. Distance in miles and direction from nearest town or post office*
24 miles SW of Jal, NM

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

8. Lease Name and Well No.
Wildcat 21 MP Fed Com #1H

9. API Well No.

10. Field and Pool, or Exploratory
Antelope Ridge West Bone Spring

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 21 T23S R34E

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)

150'

16. No. of acres in lease
L-4333-160, NM17466-A-40
NM0556297-120

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

500' - Antebellum #1

19. Proposed Depth
16168 MLD
11497 TVD

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3497' - GL

22. Approximate date work will start*
02/01/2014

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:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- 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
12-11-13

Approved by (Signature)
Steve Caffey
Title
FIELD MANAGER

Name (Printed/Typed)
Office
CARLSBAD FIELD OFFICE

Date
MAY - 7 2015

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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 12 2015

Drilling Program
Mewbourne Oil Company
Wildcat 21 MP Fed Com #1H
1160' FSL & 150' FWL (SHL)
Sec 21-T23S-R34E
Lea County, New Mexico

1. The estimated tops of geological markers are as follows:

Rustler	970'
Top Salt	1220'
Base Salt	2850'
Yates	NP
Seven Rivers	NP
Queen	NP
Capitan	NP
Grayburg	NP
San Andres	NP
Glorieta	NP
Yeso	NP
*Lamar/Delaware	5080'
*Bone Springs	8630'
1 st Bone Spring Sand	9760'
2 nd Bone Spring Sand	10280'
3 rd Bone Spring Sand	11240'
Wolfcamp	Will not penetrate.

HOBBS OCD

MAY 12 2015

RECEIVED

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water is anticipated @ 235' & will be protected by setting surface casing at 1000' ^{1070'} and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

See CCA → A 2000# WP annular will be installed after running 13 3/8" casing. A 3000# WP double ram BOP and 3000# WP Annular will be installed after running 9 5/8" & 7" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. Will test the 13 3/8" annular to 1500# and the 9 5/8" & 7" BOPE to 3000# and annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. MOC proposes to drill a vertical wellbore to 11,021' & kick off to horizontal @11,497' TVD. The well will be drilled to 16169' MD (11,407' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

See COA

Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-1000' 1070'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0-3300'	LT&C
12 1/4"	9 5/8" (new)	40#	HCK-55	3300'-4300'	LT&C
12 1/4"	9 5/8" (new)	40#	N80	4300'-4800' 5070'	LT&C
8 3/4"	7" (new)	26#	P110	0'-11021' MD	LT&C
8 3/4"	7" (new)	26#	P110	11021'-11797' MD	BT&C
6 1/8"	4 1/2" (new)	13.5#	P110	11597'-TD' MD	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

*Subject to availability of casing.

B. Cementing Program:

- Surface Casing: 550 sks Class "C" lite cement w/ salt. Yield at 2.1 cuft/sk. Mix water @ 11.17 gal/sk. 200 sks Class "C" cement w/ 1% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/ 100% excess.
- Intermediate Casing: 1000 sacks Class "C" light cement w/ salt & LCM additives. Yield at 2.1 cuft/sk. Mix water @ 11.17 gal/sk. 200 sacks Class "C" cement w/ 2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/ 25% excess.
- Production Casing: 500' sacks *Lite "C" (60:40:0) cement w/salt and fluid loss additives. Yield at 2.12 cuft/sk. Mix water @ 11.32 gal/sk. 300 sacks Class "H" cement w/ salt & FLA additives. Yield at 1.18 cuft/sk. Mix water @ 5.22 gal/sk. Cmt calculated to tie back 200' into 9 5/8" casing @ 4600' w/25% excess.
- Production Liner: 300 sacks Class "H" cement w/salt & FLA additives. Yield at 1.29 cuft/sk. Mix water @ 5.31 gal/sk. Cement calculated to tie back to liner top @ 11597'.

See COA

*Referring to above blends of light cement: (wt% fly ash : wt% cement : wt% bentonite of the total of first two numbers). Generic names of additives are used since the availability of specific company and products are unknown at this time.

6. Mud Program:

See COA

Interval	Type System	Weight	Viscosity	Fluid Loss
0' - 1000' 1070'	FW spud mud	8.6-9.0	32-34	NA
1000' - 4800' 5070'	Brine water	10.0-10.2	28-30	NA
4800' - 11021' (KOP)	FW	8.5-8.7	28-30	15
11021' - TD	FW w/Polymer	8.5-8.7	32-35	15

**Visual mud monitoring system shall be in place to detect volume changes indicating loss or gain of circulation fluid volume. Sufficient mud materials will be kept on location at all times to combat abnormal conditions.

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: GR, CN & Gyro from KOP -100' (10,921') to surface. GR from 10,921' to TD.

8. Downhole Conditions

*See
COA*

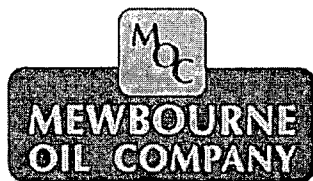
Zones of abnormal pressure:
Zones of lost circulation:
Maximum bottom hole temperature:
Maximum bottom hole pressure:

None anticipated
Anticipated in surface and intermediate holes
120 degree F
8.3 lbs/gal gradient or less ($.43368 \times 11,497' = 4986$ psi)

Drilling Program
Mewbourne Oil Company
Wildcat 21 MP Fed Com #1H
Page 3

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 40 days involved in drilling operations and an additional 10 days involved in completion operations on the project.



Mewbourne Oil Company .

Lea County N. M. Nad (83)
Section 21-23S-34E Wildcat 21MP
Wildcat 21MP Fed Com #1H

Original Hole

Plan: Plan#1

Standard Planning Report

09 December, 2013





Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Project	Lea County N. M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 21-23S-34E Wildcat 21MP		
Site Position:		Northing:	468,838.70 usft
From:	Map	Easting:	804,096.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 9.775 N
		Longitude:	103° 28' 58.997 W
		Grid Convergence:	0.45 °

Well	Wildcat 21 MP Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,497.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/6/2013	7.24	60.20	48,415

Design	Plan#1		
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	99.37

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	
11,021.0	0.00	0.00	11,021.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,540.5	63.38	113.05	11,440.8	-101.5	238.5	12.20	12.20	0.00	113.05	
11,796.7	91.18	98.24	11,497.0	-166.3	476.5	12.20	10.85	-5.78	-29.51	LP Wildcat 21 MP F
16,168.8	91.18	98.24	11,407.0	-792.8	4,802.6	0.00	0.00	0.00	0.00	PBHL Wildcat 21 M



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Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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
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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



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Wellbore:	Original Hole		
Design:	Plan#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)	
5,400.0	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	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00	



Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,021.0	0.00	0.00	11,021.0	0.0	0.0	0.0	0.00	0.00	0.00
11021' MD KOP									
11,025.0	0.49	113.05	11,025.0	0.0	0.0	0.0	12.20	12.20	0.00
11,050.0	3.54	113.05	11,050.0	-0.4	0.8	0.9	12.20	12.20	0.00
11,075.0	6.59	113.05	11,074.9	-1.2	2.9	3.0	12.20	12.20	0.00
11,100.0	9.64	113.05	11,099.6	-2.6	6.1	6.4	12.20	12.20	0.00
11,125.0	12.69	113.05	11,124.2	-4.5	10.6	11.1	12.20	12.20	0.00
11,150.0	15.74	113.05	11,148.4	-6.9	16.2	17.1	12.20	12.20	0.00
11,175.0	18.79	113.05	11,172.3	-9.8	23.0	24.3	12.20	12.20	0.00
11,200.0	21.84	113.05	11,195.7	-13.2	31.0	32.7	12.20	12.20	0.00
11,225.0	24.89	113.05	11,218.6	-17.1	40.1	42.4	12.20	12.20	0.00
11,250.0	27.94	113.05	11,241.0	-21.4	50.4	53.2	12.20	12.20	0.00
11,275.0	30.99	113.05	11,262.8	-26.2	61.7	65.1	12.20	12.20	0.00
11,300.0	34.04	113.05	11,283.9	-31.5	74.0	78.2	12.20	12.20	0.00
11,325.0	37.09	113.05	11,304.2	-37.2	87.4	92.3	12.20	12.20	0.00
11,350.0	40.14	113.05	11,323.7	-43.3	101.8	107.5	12.20	12.20	0.00
11,375.0	43.19	113.05	11,342.4	-49.8	117.1	123.6	12.20	12.20	0.00
11,400.0	46.24	113.05	11,360.2	-56.7	133.2	140.7	12.20	12.20	0.00
11,425.0	49.29	113.05	11,377.0	-63.9	150.3	158.7	12.20	12.20	0.00
11,450.0	52.34	113.05	11,392.8	-71.5	168.1	177.5	12.20	12.20	0.00
11,475.0	55.39	113.05	11,407.5	-79.4	186.7	197.1	12.20	12.20	0.00
11,500.0	58.44	113.05	11,421.2	-87.6	206.0	217.5	12.20	12.20	0.00
11,525.0	61.49	113.05	11,433.7	-96.1	225.9	238.5	12.20	12.20	0.00
11,540.5	63.38	113.05	11,440.8	-101.5	238.5	251.8	12.20	12.20	0.00
11,550.0	64.39	112.42	11,445.0	-104.8	246.4	260.2	12.20	10.63	-6.66
11,575.0	67.06	110.80	11,455.3	-113.2	267.6	282.4	12.20	10.68	-6.47
11,600.0	69.75	109.25	11,464.5	-121.1	289.4	305.3	12.20	10.74	-6.22
11,625.0	72.45	107.74	11,472.6	-128.6	311.8	328.6	12.20	10.80	-6.00
11,650.0	75.16	106.29	11,479.6	-135.7	334.8	352.4	12.20	10.84	-5.83
11,675.0	77.88	104.87	11,485.4	-142.2	358.2	376.6	12.20	10.88	-5.68
11,700.0	80.60	103.48	11,490.1	-148.2	382.0	401.0	12.20	10.91	-5.57
11,725.0	83.33	102.11	11,493.6	-153.7	406.1	425.8	12.20	10.93	-5.48
11,750.0	86.07	100.75	11,495.9	-158.6	430.5	450.6	12.20	10.94	-5.42
11,775.0	88.81	99.40	11,497.0	-163.0	455.1	475.6	12.20	10.95	-5.38
11,796.7	91.18	98.24	11,497.0	-166.3	476.6	497.3	12.18	10.93	-5.36
11796.7' MD LP									
11,800.0	91.18	98.24	11,496.9	-166.8	479.8	500.6	0.00	0.00	0.00
11,900.0	91.18	98.24	11,494.9	-181.1	578.8	600.5	0.00	0.00	0.00
12,000.0	91.18	98.24	11,492.8	-195.4	677.7	700.5	0.00	0.00	0.00
12,100.0	91.18	98.24	11,490.8	-209.8	776.7	800.5	0.00	0.00	0.00
12,200.0	91.18	98.24	11,488.7	-224.1	875.6	900.4	0.00	0.00	0.00
12,300.0	91.18	98.24	11,486.6	-238.4	974.6	1,000.4	0.00	0.00	0.00
12,400.0	91.18	98.24	11,484.6	-252.7	1,073.5	1,100.3	0.00	0.00	0.00
12,500.0	91.18	98.24	11,482.5	-267.1	1,172.5	1,200.3	0.00	0.00	0.00
12,600.0	91.18	98.24	11,480.5	-281.4	1,271.4	1,300.3	0.00	0.00	0.00
12,700.0	91.18	98.24	11,478.4	-295.7	1,370.4	1,400.2	0.00	0.00	0.00
12,800.0	91.18	98.24	11,476.3	-310.1	1,469.3	1,500.2	0.00	0.00	0.00
12,900.0	91.18	98.24	11,474.3	-324.4	1,568.2	1,600.1	0.00	0.00	0.00
13,000.0	91.18	98.24	11,472.2	-338.7	1,667.2	1,700.1	0.00	0.00	0.00
13,100.0	91.18	98.24	11,470.2	-353.1	1,766.1	1,800.1	0.00	0.00	0.00
13,200.0	91.18	98.24	11,468.1	-367.4	1,865.1	1,900.0	0.00	0.00	0.00



Stryker Directional Planning Report



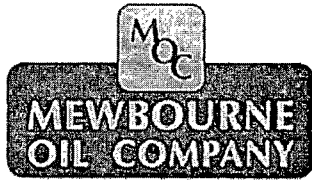
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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)
13,300.0	91.18	98.24	11,466.1	-381.7	1,964.0	2,000.0	0.00	0.00	0.00
13,400.0	91.18	98.24	11,464.0	-396.0	2,063.0	2,099.9	0.00	0.00	0.00
13,500.0	91.18	98.24	11,461.9	-410.4	2,161.9	2,199.9	0.00	0.00	0.00
13,600.0	91.18	98.24	11,459.9	-424.7	2,260.9	2,299.9	0.00	0.00	0.00
13,700.0	91.18	98.24	11,457.8	-439.0	2,359.8	2,399.8	0.00	0.00	0.00
13,800.0	91.18	98.24	11,455.8	-453.4	2,458.8	2,499.8	0.00	0.00	0.00
13,900.0	91.18	98.24	11,453.7	-467.7	2,557.7	2,599.7	0.00	0.00	0.00
14,000.0	91.18	98.24	11,451.6	-482.0	2,656.7	2,699.7	0.00	0.00	0.00
14,100.0	91.18	98.24	11,449.6	-496.4	2,755.6	2,799.7	0.00	0.00	0.00
14,200.0	91.18	98.24	11,447.5	-510.7	2,854.6	2,899.6	0.00	0.00	0.00
14,300.0	91.18	98.24	11,445.5	-525.0	2,953.5	2,999.6	0.00	0.00	0.00
14,400.0	91.18	98.24	11,443.4	-539.3	3,052.4	3,099.5	0.00	0.00	0.00
14,500.0	91.18	98.24	11,441.4	-553.7	3,151.4	3,199.5	0.00	0.00	0.00
14,600.0	91.18	98.24	11,439.3	-568.0	3,250.3	3,299.4	0.00	0.00	0.00
14,700.0	91.18	98.24	11,437.2	-582.3	3,349.3	3,399.4	0.00	0.00	0.00
14,800.0	91.18	98.24	11,435.2	-596.7	3,448.2	3,499.4	0.00	0.00	0.00
14,900.0	91.18	98.24	11,433.1	-611.0	3,547.2	3,599.3	0.00	0.00	0.00
15,000.0	91.18	98.24	11,431.1	-625.3	3,646.1	3,699.3	0.00	0.00	0.00
15,100.0	91.18	98.24	11,429.0	-639.6	3,745.1	3,799.2	0.00	0.00	0.00
15,200.0	91.18	98.24	11,426.9	-654.0	3,844.0	3,899.2	0.00	0.00	0.00
15,300.0	91.18	98.24	11,424.9	-668.3	3,943.0	3,999.2	0.00	0.00	0.00
15,400.0	91.18	98.24	11,422.8	-682.6	4,041.9	4,099.1	0.00	0.00	0.00
15,500.0	91.18	98.24	11,420.8	-697.0	4,140.9	4,199.1	0.00	0.00	0.00
15,600.0	91.18	98.24	11,418.7	-711.3	4,239.8	4,299.0	0.00	0.00	0.00
15,700.0	91.18	98.24	11,416.6	-725.6	4,338.8	4,399.0	0.00	0.00	0.00
15,800.0	91.18	98.24	11,414.6	-740.0	4,437.7	4,499.0	0.00	0.00	0.00
15,900.0	91.18	98.24	11,412.5	-754.3	4,536.6	4,598.9	0.00	0.00	0.00
16,000.0	91.18	98.24	11,410.5	-768.6	4,635.6	4,698.9	0.00	0.00	0.00
16,100.0	91.18	98.24	11,408.4	-782.9	4,734.5	4,798.8	0.00	0.00	0.00
16,168.8	91.18	98.24	11,407.0	-792.8	4,802.6	4,867.6	0.00	0.00	0.00
16168.8' MD PBHL									

Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hi/miss target									
- Shape									
PBHL Wildcat 21 MP	0.00	0.00	11,407.0	-792.8	4,802.6	468,045.90	808,898.90	32° 17' 1.550 N	103° 28' 3.129 W
- plan hits target center									
- Point									
LP Wildcat 21 MP Fec	0.00	0.00	11,497.0	-166.3	476.5	468,672.41	804,572.83	32° 17' 8.092 N	103° 28' 53.462 W
- plan hits target center									
- Point									



Mewbourne Oil Company .

**Lea County N. M. Nad (83)
Section 21-23S-34E Wildcat 21MP
Wildcat 21MP Fed Com #1H**

Original Hole

Plan: Plan#1

Standard Planning Report - Geographic

09 December, 2013





Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Project	Lea County N. M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 21-23S-34E Wildcat 21MP		
Site Position:		Northing:	468,838.70 usft
From:	Map	Easting:	804,096.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 9.775 N
		Longitude:	103° 28' 58.997 W
		Grid Convergence:	0.45 °

Well	Wildcat 21 MP Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 17' 9.775 N
		Longitude:	103° 28' 58.997 W
		Ground Level:	3,497.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/6/2013	7.24	60.20	48,415

Design	Plan#1		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	99.37

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	
11,021.0	0.00	0.00	11,021.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,540.5	63.38	113.05	11,440.8	-101.5	238.5	12.20	12.20	0.00	113.05	
11,796.7	91.18	98.24	11,497.0	-166.3	476.5	12.20	10.85	-5.78	-29.51	LP Wildcat 21 MP F
16,168.8	91.18	98.24	11,407.0	-792.8	4,802.6	0.00	0.00	0.00	0.00	PBHL Wildcat 21 M



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
100.0	0.00	0.00	100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
200.0	0.00	0.00	200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
300.0	0.00	0.00	300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
400.0	0.00	0.00	400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
500.0	0.00	0.00	500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
600.0	0.00	0.00	600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
700.0	0.00	0.00	700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
800.0	0.00	0.00	800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
900.0	0.00	0.00	900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,400.0	0.00	0.00	5,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W



Stryker Directional Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP-Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,500.0	0.00	0.00	5,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,600.0	0.00	0.00	5,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,700.0	0.00	0.00	5,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,800.0	0.00	0.00	5,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
5,900.0	0.00	0.00	5,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,100.0	0.00	0.00	6,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,300.0	0.00	0.00	6,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,400.0	0.00	0.00	6,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,600.0	0.00	0.00	6,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,700.0	0.00	0.00	6,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,800.0	0.00	0.00	6,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
6,900.0	0.00	0.00	6,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,000.0	0.00	0.00	7,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,100.0	0.00	0.00	7,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,200.0	0.00	0.00	7,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,300.0	0.00	0.00	7,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,400.0	0.00	0.00	7,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,500.0	0.00	0.00	7,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,600.0	0.00	0.00	7,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,700.0	0.00	0.00	7,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,800.0	0.00	0.00	7,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
7,900.0	0.00	0.00	7,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,000.0	0.00	0.00	8,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,100.0	0.00	0.00	8,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,200.0	0.00	0.00	8,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,300.0	0.00	0.00	8,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,400.0	0.00	0.00	8,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,500.0	0.00	0.00	8,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,600.0	0.00	0.00	8,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,700.0	0.00	0.00	8,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,800.0	0.00	0.00	8,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
8,900.0	0.00	0.00	8,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,000.0	0.00	0.00	9,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,100.0	0.00	0.00	9,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,200.0	0.00	0.00	9,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,300.0	0.00	0.00	9,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,400.0	0.00	0.00	9,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,500.0	0.00	0.00	9,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,600.0	0.00	0.00	9,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,700.0	0.00	0.00	9,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,800.0	0.00	0.00	9,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
9,900.0	0.00	0.00	9,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,000.0	0.00	0.00	10,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,100.0	0.00	0.00	10,100.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,200.0	0.00	0.00	10,200.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,300.0	0.00	0.00	10,300.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,400.0	0.00	0.00	10,400.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,500.0	0.00	0.00	10,500.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,600.0	0.00	0.00	10,600.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,700.0	0.00	0.00	10,700.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,800.0	0.00	0.00	10,800.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
10,900.0	0.00	0.00	10,900.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,000.0	0.00	0.00	11,000.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
11,021.0	0.00	0.00	11,021.0	0.0	0.0	468,838.70	804,096.30	32° 17' 9.775 N	103° 28' 58.997 W
11021' MD KOP									
11,025.0	0.49	113.05	11,025.0	0.0	0.0	468,838.69	804,096.31	32° 17' 9.775 N	103° 28' 58.997 W
11,050.0	3.54	113.05	11,050.0	-0.4	0.8	468,838.35	804,097.12	32° 17' 9.771 N	103° 28' 58.988 W
11,075.0	6.59	113.05	11,074.9	-1.2	2.9	468,837.49	804,099.15	32° 17' 9.763 N	103° 28' 58.964 W
11,100.0	9.64	113.05	11,099.6	-2.6	6.1	468,836.10	804,102.40	32° 17' 9.749 N	103° 28' 58.926 W
11,125.0	12.69	113.05	11,124.2	-4.5	10.6	468,834.21	804,106.85	32° 17' 9.730 N	103° 28' 58.875 W
11,150.0	15.74	113.05	11,148.4	-6.9	16.2	468,831.81	804,112.50	32° 17' 9.705 N	103° 28' 58.809 W
11,175.0	18.79	113.05	11,172.3	-9.8	23.0	468,828.90	804,119.32	32° 17' 9.676 N	103° 28' 58.730 W
11,200.0	21.84	113.05	11,195.7	-13.2	31.0	468,825.50	804,127.31	32° 17' 9.642 N	103° 28' 58.637 W
11,225.0	24.89	113.05	11,218.6	-17.1	40.1	468,821.62	804,136.43	32° 17' 9.603 N	103° 28' 58.531 W
11,250.0	27.94	113.05	11,241.0	-21.4	50.4	468,817.27	804,146.66	32° 17' 9.559 N	103° 28' 58.412 W
11,275.0	30.99	113.05	11,262.8	-26.2	61.7	468,812.45	804,157.98	32° 17' 9.510 N	103° 28' 58.281 W
11,300.0	34.04	113.05	11,283.9	-31.5	74.0	468,807.19	804,170.34	32° 17' 9.457 N	103° 28' 58.138 W
11,325.0	37.09	113.05	11,304.2	-37.2	87.4	468,801.50	804,183.72	32° 17' 9.400 N	103° 28' 57.982 W
11,350.0	40.14	113.05	11,323.7	-43.3	101.8	468,795.39	804,198.07	32° 17' 9.338 N	103° 28' 57.816 W
11,375.0	43.19	113.05	11,342.4	-49.8	117.1	468,788.89	804,213.36	32° 17' 9.273 N	103° 28' 57.638 W
11,400.0	46.24	113.05	11,360.2	-56.7	133.2	468,782.00	804,229.54	32° 17' 9.203 N	103° 28' 57.450 W
11,425.0	49.29	113.05	11,377.0	-63.9	150.3	468,774.75	804,246.57	32° 17' 9.130 N	103° 28' 57.253 W
11,450.0	52.34	113.05	11,392.8	-71.5	168.1	468,767.17	804,264.40	32° 17' 9.054 N	103° 28' 57.046 W
11,475.0	55.39	113.05	11,407.5	-79.4	186.7	468,759.26	804,282.98	32° 17' 8.974 N	103° 28' 56.830 W
11,500.0	58.44	113.05	11,421.2	-87.6	206.0	468,751.06	804,302.25	32° 17' 8.892 N	103° 28' 56.606 W
11,525.0	61.49	113.05	11,433.7	-96.1	225.9	468,742.59	804,322.16	32° 17' 8.806 N	103° 28' 56.375 W
11,540.5	63.38	113.05	11,440.8	-101.5	238.5	468,737.22	804,334.78	32° 17' 8.752 N	103° 28' 56.229 W
11,550.0	64.39	112.42	11,445.0	-104.8	246.4	468,733.91	804,342.67	32° 17' 8.719 N	103° 28' 56.137 W
11,575.0	67.06	110.80	11,455.3	-113.2	267.6	468,725.52	804,363.86	32° 17' 8.634 N	103° 28' 55.891 W
11,600.0	69.75	109.25	11,464.5	-121.1	289.4	468,717.57	804,385.70	32° 17' 8.554 N	103° 28' 55.637 W
11,625.0	72.45	107.74	11,472.6	-128.6	311.8	468,710.07	804,408.12	32° 17' 8.478 N	103° 28' 55.377 W
11,650.0	75.16	106.29	11,479.6	-135.7	334.8	468,703.05	804,431.08	32° 17' 8.406 N	103° 28' 55.110 W
11,675.0	77.88	104.87	11,485.4	-142.2	358.2	468,696.52	804,454.49	32° 17' 8.340 N	103° 28' 54.838 W
11,700.0	80.60	103.48	11,490.1	-148.2	382.0	468,690.51	804,478.30	32° 17' 8.279 N	103° 28' 54.561 W
11,725.0	83.33	102.11	11,493.6	-153.7	406.1	468,685.03	804,502.44	32° 17' 8.223 N	103° 28' 54.280 W
11,750.0	86.07	100.75	11,495.9	-158.6	430.5	468,680.10	804,526.84	32° 17' 8.172 N	103° 28' 53.997 W
11,775.0	88.81	99.40	11,497.0	-163.0	455.1	468,675.73	804,551.43	32° 17' 8.127 N	103° 28' 53.711 W
11,796.7	91.18	98.24	11,497.0	-166.3	476.6	468,672.40	804,572.87	32° 17' 8.092 N	103° 28' 53.461 W
11796.7' MD LP									
11,800.0	91.18	98.24	11,496.9	-166.8	479.8	468,671.93	804,576.13	32° 17' 8.087 N	103° 28' 53.423 W
11,900.0	91.18	98.24	11,494.9	-181.1	578.8	468,657.60	804,675.08	32° 17' 7.938 N	103° 28' 52.272 W
12,000.0	91.18	98.24	11,492.8	-195.4	677.7	468,643.27	804,774.03	32° 17' 7.788 N	103° 28' 51.121 W
12,100.0	91.18	98.24	11,490.8	-209.8	776.7	468,628.94	804,872.97	32° 17' 7.638 N	103° 28' 49.970 W
12,200.0	91.18	98.24	11,488.7	-224.1	875.6	468,614.61	804,971.92	32° 17' 7.489 N	103° 28' 48.818 W
12,300.0	91.18	98.24	11,486.6	-238.4	974.6	468,600.28	805,070.87	32° 17' 7.339 N	103° 28' 47.667 W
12,400.0	91.18	98.24	11,484.6	-252.7	1,073.5	468,585.95	805,169.81	32° 17' 7.190 N	103° 28' 46.516 W
12,500.0	91.18	98.24	11,482.5	-267.1	1,172.5	468,571.62	805,268.76	32° 17' 7.040 N	103° 28' 45.365 W
12,600.0	91.18	98.24	11,480.5	-281.4	1,271.4	468,557.29	805,367.71	32° 17' 6.891 N	103° 28' 44.213 W
12,700.0	91.18	98.24	11,478.4	-295.7	1,370.4	468,542.96	805,466.65	32° 17' 6.741 N	103° 28' 43.062 W
12,800.0	91.18	98.24	11,476.3	-310.1	1,469.3	468,528.63	805,565.60	32° 17' 6.591 N	103° 28' 41.911 W
12,900.0	91.18	98.24	11,474.3	-324.4	1,568.2	468,514.30	805,664.55	32° 17' 6.442 N	103° 28' 40.760 W
13,000.0	91.18	98.24	11,472.2	-338.7	1,667.2	468,499.97	805,763.49	32° 17' 6.292 N	103° 28' 39.609 W
13,100.0	91.18	98.24	11,470.2	-353.1	1,766.1	468,485.64	805,862.44	32° 17' 6.143 N	103° 28' 38.457 W
13,200.0	91.18	98.24	11,468.1	-367.4	1,865.1	468,471.31	805,961.38	32° 17' 5.993 N	103° 28' 37.306 W
13,300.0	91.18	98.24	11,466.1	-381.7	1,964.0	468,456.99	806,060.33	32° 17' 5.843 N	103° 28' 36.155 W
13,400.0	91.18	98.24	11,464.0	-396.0	2,063.0	468,442.66	806,159.28	32° 17' 5.694 N	103° 28' 35.004 W



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Project:	Lea County N. M. Nad (83)	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site:	Section 21-23S-34E Wildcat 21MP	North Reference:	Grid
Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,500.0	91.18	98.24	11,461.9	-410.4	2,161.9	468,428.33	806,258.22	32° 17' 5.544 N	103° 28' 33.852 W
13,600.0	91.18	98.24	11,459.9	-424.7	2,260.9	468,414.00	806,357.17	32° 17' 5.394 N	103° 28' 32.701 W
13,700.0	91.18	98.24	11,457.8	-439.0	2,359.8	468,399.67	806,456.12	32° 17' 5.245 N	103° 28' 31.550 W
13,800.0	91.18	98.24	11,455.8	-453.4	2,458.8	468,385.34	806,555.06	32° 17' 5.095 N	103° 28' 30.399 W
13,900.0	91.18	98.24	11,453.7	-467.7	2,557.7	468,371.01	806,654.01	32° 17' 4.946 N	103° 28' 29.248 W
14,000.0	91.18	98.24	11,451.6	-482.0	2,656.7	468,356.68	806,752.96	32° 17' 4.796 N	103° 28' 28.096 W
14,100.0	91.18	98.24	11,449.6	-496.4	2,755.6	468,342.35	806,851.90	32° 17' 4.646 N	103° 28' 26.945 W
14,200.0	91.18	98.24	11,447.5	-510.7	2,854.6	468,328.02	806,950.85	32° 17' 4.497 N	103° 28' 25.794 W
14,300.0	91.18	98.24	11,445.5	-525.0	2,953.5	468,313.69	807,049.80	32° 17' 4.347 N	103° 28' 24.643 W
14,400.0	91.18	98.24	11,443.4	-539.3	3,052.4	468,299.36	807,148.74	32° 17' 4.197 N	103° 28' 23.492 W
14,500.0	91.18	98.24	11,441.4	-553.7	3,151.4	468,285.03	807,247.69	32° 17' 4.048 N	103° 28' 22.340 W
14,600.0	91.18	98.24	11,439.3	-568.0	3,250.3	468,270.70	807,346.64	32° 17' 3.898 N	103° 28' 21.189 W
14,700.0	91.18	98.24	11,437.2	-582.3	3,349.3	468,256.37	807,445.58	32° 17' 3.749 N	103° 28' 20.038 W
14,800.0	91.18	98.24	11,435.2	-596.7	3,448.2	468,242.04	807,544.53	32° 17' 3.599 N	103° 28' 18.887 W
14,900.0	91.18	98.24	11,433.1	-611.0	3,547.2	468,227.71	807,643.48	32° 17' 3.449 N	103° 28' 17.736 W
15,000.0	91.18	98.24	11,431.1	-625.3	3,646.1	468,213.38	807,742.42	32° 17' 3.300 N	103° 28' 16.584 W
15,100.0	91.18	98.24	11,429.0	-639.6	3,745.1	468,199.05	807,841.37	32° 17' 3.150 N	103° 28' 15.433 W
15,200.0	91.18	98.24	11,426.9	-654.0	3,844.0	468,184.72	807,940.32	32° 17' 3.000 N	103° 28' 14.282 W
15,300.0	91.18	98.24	11,424.9	-668.3	3,943.0	468,170.39	808,039.26	32° 17' 2.851 N	103° 28' 13.131 W
15,400.0	91.18	98.24	11,422.8	-682.6	4,041.9	468,156.06	808,138.21	32° 17' 2.701 N	103° 28' 11.980 W
15,500.0	91.18	98.24	11,420.8	-697.0	4,140.9	468,141.73	808,237.16	32° 17' 2.551 N	103° 28' 10.828 W
15,600.0	91.18	98.24	11,418.7	-711.3	4,239.8	468,127.41	808,336.10	32° 17' 2.402 N	103° 28' 9.677 W
15,700.0	91.18	98.24	11,416.6	-725.6	4,338.8	468,113.08	808,435.05	32° 17' 2.252 N	103° 28' 8.526 W
15,800.0	91.18	98.24	11,414.6	-740.0	4,437.7	468,098.75	808,534.00	32° 17' 2.102 N	103° 28' 7.375 W
15,900.0	91.18	98.24	11,412.5	-754.3	4,536.6	468,084.42	808,632.94	32° 17' 1.953 N	103° 28' 6.224 W
16,000.0	91.18	98.24	11,410.5	-768.6	4,635.6	468,070.09	808,731.89	32° 17' 1.803 N	103° 28' 5.072 W
16,100.0	91.18	98.24	11,408.4	-782.9	4,734.5	468,055.76	808,830.84	32° 17' 1.653 N	103° 28' 3.921 W
16,168.8	91.18	98.24	11,407.0	-792.8	4,802.6	468,045.90	808,898.90	32° 17' 1.550 N	103° 28' 3.129 W

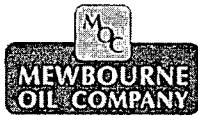
16168.8' MD PBHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Wildcat 21 MP	0.00	0.00	11,407.0	-792.8	4,802.6	468,045.90	808,898.90	32° 17' 1.550 N	103° 28' 3.129 W
- plan hits target center									
- Point									
LP Wildcat 21 MP Fed	0.00	0.00	11,497.0	-166.3	476.5	468,672.41	804,572.83	32° 17' 8.092 N	103° 28' 53.462 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
11,021.0	11,021.0	0.0	0.0	11021' MD KOP
11,796.7	11,497.0	-166.3	476.6	11796.7' MD LP
16,168.8	11,407.0	-792.8	4,802.6	16168.8' MD PBHL



COMPANY: Mewbourne Oil Company
 WELL: Wildcat 21 MP Fed Com #1H
 COUNTY: Lea County N. M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson #80

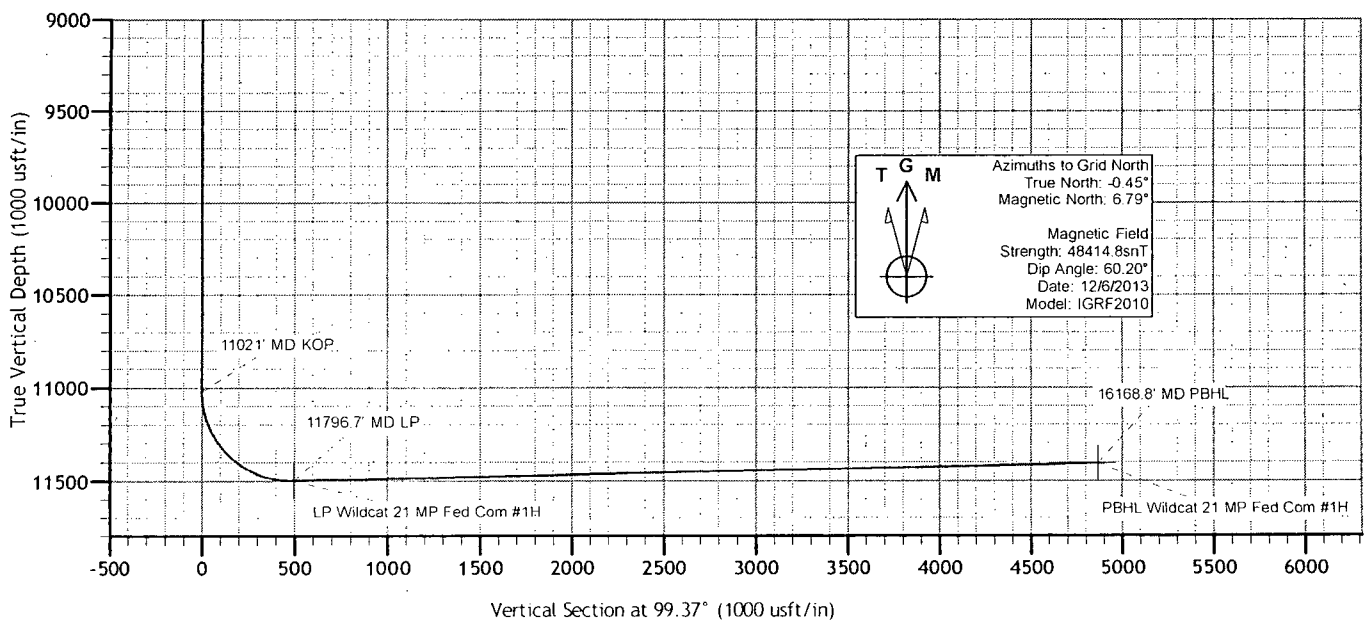
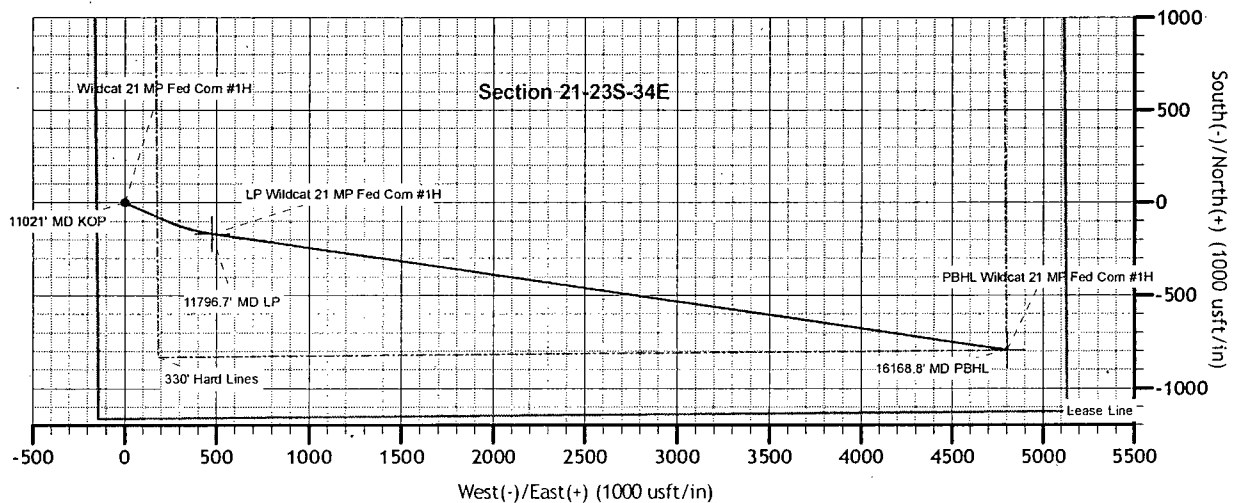


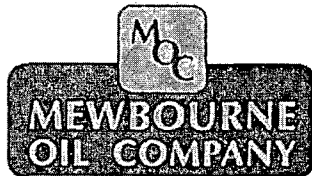
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.79°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico Eastern Zone										
GL 3497 + 20 @ 3517.0usft (Patterson #80)										
GROUND ELEVATION: 3497.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	468838.70	804096.30	32° 17' 9.775 N	103° 28' 58.997 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	11021.0	0.00	0.00	11021.0	0.0	0.0	0.00	0.00	0.0	
3	11540.5	63.38	113.05	11440.8	-101.5	238.5	12.20	113.05	251.8	
4	11796.7	91.18	98.24	11497.0	-166.3	476.5	12.20	-29.51	497.3	LP Wildcat 21 MP Fed Com #1H
5	16168.8	91.18	98.24	11407.0	-792.8	4802.6	0.00	0.00	4867.6	PBHL Wildcat 21 MP Fed Com #1H

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL Wildcat 21 MP Fed Com #1H	11407.0	-792.8	4802.6	468045.90	808898.90	32° 17' 1.550 N	103° 28' 3.129 W	Point	
- plan hits target center									
LP Wildcat 21 MP Fed Com #1H	11497.0	-166.3	476.5	468672.41	804572.83	32° 17' 8.092 N	103° 28' 53.462 W	Point	
- plan hits target center									





Mewbourne Oil Company .

Lea County N. M. Nad (83)
Section 21-23S-34E Wildcat 21MP
Wildcat 21MP Fed Com #1H

Original Hole
Plan#1

Anticollision Risk Report

10 January, 2014





Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM-5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Reference	Plan#1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Risk Settings	
Vertical Depth for Analysis:	usft (Below TVD Reference Datum)
Level of Acceptable Risk (1 in):	
Minimum Separation:	0 usft

Survey Tool Program		Date 12/9/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	16,168.8	Plan#1 (Original Hole)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Section 21-23S-34E Wildcat 21MP						
Antbellum Unit #1 - Wellbore #1 - Wellbore #1	13,156.5	11,458.3	86.9	6.5	1.081	Level 2 , CC, ES, SF

Offset Design												Section 21-23S-34E Wildcat 21MP - Antbellum Unit #1 - Wellbore #1 - Wellbore #1		Offset Site Error: 0.0 usft	
Survey Program: 125-MWD														Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation of Collision Factor	Probability of Collision	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	104.83	1,897.7					0			
100.0	100.0	91.6	91.6	0.1	0.1	104.83	1,897.6	1,897.4	0.2	10,000.000	0				
200.0	200.0	192.1	192.1	0.3	0.3	104.82	1,897.5	1,896.9	0.6	3,189.171	0				
300.0	300.0	292.1	292.1	0.5	0.5	104.80	1,897.4	1,896.4	1.0	1,816.667	0				
400.0	400.0	392.1	392.1	0.8	0.7	104.79	1,897.3	1,895.8	1.5	1,269.995	0				
500.0	500.0	498.3	498.3	1.0	1.0	104.76	1,897.0	1,895.1	2.0	968.925	0				
600.0	600.0	594.8	594.8	1.2	1.2	104.72	1,896.7	1,894.3	2.4	798.932	0				
700.0	700.0	695.0	695.0	1.4	1.4	104.69	1,896.5	1,893.6	2.8	676.982	0				
800.0	800.0	795.9	795.9	1.7	1.6	104.66	1,896.2	1,892.9	3.2	586.924	0				
900.0	900.0	896.3	896.3	1.9	1.8	104.62	1,895.8	1,892.2	3.7	516.574	0				
1,000.0	1,000.0	996.3	996.2	2.1	2.0	104.58	1,895.5	1,891.4	4.1	460.359	0				
1,100.0	1,100.0	1,095.0	1,095.0	2.3	2.2	104.55	1,895.2	1,890.7	4.5	416.900	0				
1,200.0	1,200.0	1,193.5	1,193.4	2.6	2.4	104.52	1,895.0	1,890.0	5.0	381.560	0				
1,300.0	1,300.0	1,292.5	1,292.5	2.8	2.6	104.51	1,894.8	1,889.5	5.4	351.979	0				
1,400.0	1,400.0	1,394.8	1,394.7	3.0	2.8	104.48	1,894.7	1,888.8	5.8	325.527	0				
1,500.0	1,500.0	1,495.9	1,495.8	3.2	3.0	104.45	1,894.4	1,888.1	6.3	302.860	0				
1,600.0	1,600.0	1,594.7	1,594.6	3.5	3.2	104.42	1,894.1	1,887.4	6.7	283.328	0				
1,700.0	1,700.0	1,694.2	1,694.1	3.7	3.4	104.39	1,893.9	1,886.7	7.1	266.103	0				
1,800.0	1,800.0	1,794.2	1,794.1	3.9	3.6	104.36	1,893.6	1,886.1	7.6	250.714	0				
1,900.0	1,900.0	1,894.2	1,894.1	4.1	3.9	104.34	1,893.4	1,885.4	8.0	236.811	0				
2,000.0	2,000.0	1,994.2	1,994.1	4.4	4.1	104.31	1,893.2	1,884.8	8.4	224.342	0				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well-Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design Section 21-23S-34E Wildcat 21MP - Antbellum Unit #1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0usft
Survey Program: 125-MWD												Offset Well Error:	0.0usft
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	
2,100.0	2,100.0	2,093.1	2,093.0	4.6	4.3	104.29	1,893.0	1,884.1	8.9	213.375	0		
2,200.0	2,200.0	2,193.0	2,193.0	4.8	4.5	104.27	1,892.9	1,883.6	9.3	203.449	0		
2,300.0	2,300.0	2,295.4	2,295.3	5.0	4.7	104.25	1,892.7	1,882.9	9.7	194.163	0		
2,400.0	2,400.0	2,395.3	2,395.2	5.3	4.9	104.21	1,892.4	1,882.2	10.2	185.820	0		
2,500.0	2,500.0	2,494.4	2,494.3	5.5	5.1	104.18	1,892.1	1,881.5	10.6	178.262	0		
2,600.0	2,600.0	2,596.2	2,596.1	5.7	5.4	104.15	1,891.8	1,880.8	11.1	171.168	0		
2,700.0	2,700.0	2,696.2	2,696.0	5.9	5.6	104.11	1,891.5	1,880.0	11.5	164.538	0		
2,800.0	2,800.0	2,796.2	2,796.0	6.2	5.8	104.07	1,891.2	1,879.3	11.9	158.395	0		
2,900.0	2,900.0	2,897.4	2,897.3	6.4	6.0	104.03	1,890.9	1,878.5	12.4	152.647	0		
3,000.0	3,000.0	2,997.3	2,997.1	6.6	6.2	103.98	1,890.5	1,877.6	12.8	147.397	0		
3,100.0	3,100.0	3,097.0	3,096.8	6.8	6.4	103.94	1,890.1	1,876.9	13.3	142.576	0		
3,200.0	3,200.0	3,198.1	3,197.9	7.1	6.7	103.89	1,889.7	1,876.0	13.7	137.963	0		
3,300.0	3,300.0	3,298.1	3,297.9	7.3	6.9	103.84	1,889.3	1,875.1	14.1	133.595	0		
3,400.0	3,400.0	3,398.1	3,397.9	7.5	7.1	103.79	1,888.9	1,874.3	14.6	129.491	0		
3,500.0	3,500.0	3,498.1	3,497.8	7.7	7.3	103.73	1,888.5	1,873.4	15.0	125.627	0		
3,600.0	3,600.0	3,598.0	3,597.8	8.0	7.5	103.68	1,888.0	1,872.6	15.5	121.984	0		
3,700.0	3,700.0	3,697.8	3,697.5	8.2	7.8	103.63	1,887.6	1,871.7	15.9	118.576	0		
3,800.0	3,800.0	3,796.7	3,796.4	8.4	8.0	103.59	1,887.3	1,870.9	16.3	115.443	0		
3,900.0	3,900.0	3,897.3	3,897.1	8.6	8.2	103.54	1,886.9	1,870.2	16.8	112.447	0		
4,000.0	4,000.0	4,000.6	4,000.3	8.9	8.4	103.48	1,886.5	1,869.3	17.2	109.558	0		
4,100.0	4,100.0	4,103.6	4,103.3	9.1	8.6	103.40	1,885.8	1,868.2	17.7	106.751	0		
4,200.0	4,200.0	4,196.9	4,196.5	9.3	8.8	103.34	1,885.3	1,867.2	18.1	104.283	0		
4,300.0	4,300.0	4,294.0	4,293.7	9.5	9.0	103.31	1,885.1	1,866.6	18.5	101.919	0		
4,400.0	4,400.0	4,397.0	4,396.6	9.8	9.2	103.27	1,884.8	1,865.9	18.9	99.544	0		
4,500.0	4,500.0	4,493.7	4,493.3	10.0	9.4	103.24	1,884.5	1,865.2	19.4	97.344	0		
4,600.0	4,600.0	4,597.4	4,597.0	10.2	9.6	103.21	1,884.3	1,864.5	19.8	95.172	0		
4,700.0	4,700.0	4,698.3	4,697.9	10.4	9.8	103.15	1,883.9	1,863.7	20.2	93.106	0		
4,800.0	4,800.0	4,797.9	4,797.5	10.7	10.0	103.10	1,883.5	1,862.8	20.7	91.142	0		
4,900.0	4,900.0	4,897.9	4,897.4	10.9	10.3	103.05	1,883.1	1,862.0	21.1	89.228	0		
5,000.0	5,000.0	4,997.8	4,997.4	11.1	10.5	103.00	1,882.7	1,861.1	21.5	87.370	0		
5,100.0	5,100.0	5,097.8	5,097.4	11.3	10.7	102.95	1,882.3	1,860.3	22.0	85.588	0		
5,200.0	5,200.0	5,197.8	5,197.3	11.6	10.9	102.90	1,881.9	1,859.5	22.4	83.876	0		
5,300.0	5,300.0	5,297.8	5,297.3	11.8	11.1	102.84	1,881.5	1,858.6	22.9	82.229	0		
5,400.0	5,400.0	5,397.4	5,396.9	12.0	11.4	102.79	1,881.1	1,857.8	23.3	80.668	0		
5,500.0	5,500.0	5,496.7	5,496.2	12.2	11.6	102.75	1,880.8	1,857.0	23.8	79.191	0		
5,600.0	5,600.0	5,596.0	5,595.5	12.5	11.8	102.70	1,880.5	1,856.3	24.2	77.769	0		
5,700.0	5,700.0	5,695.3	5,694.7	12.7	12.0	102.67	1,880.2	1,855.6	24.6	76.397	0		
5,800.0	5,800.0	5,794.6	5,794.0	12.9	12.2	102.64	1,880.0	1,854.9	25.0	75.074	0		
5,900.0	5,900.0	5,895.5	5,894.9	13.1	12.4	102.61	1,879.8	1,854.3	25.5	73.788	0		
6,000.0	6,000.0	5,995.9	5,995.4	13.4	12.6	102.57	1,879.5	1,853.6	25.9	72.513	0		
6,100.0	6,100.0	6,095.9	6,095.3	13.6	12.8	102.53	1,879.2	1,852.8	26.4	71.280	0		
6,200.0	6,200.0	6,195.9	6,195.3	13.8	13.1	102.49	1,878.9	1,852.1	26.8	70.088	0		
6,300.0	6,300.0	6,295.9	6,295.3	14.0	13.3	102.45	1,878.6	1,851.4	27.3	68.934	0		
6,400.0	6,400.0	6,395.9	6,395.3	14.3	13.5	102.41	1,878.4	1,850.7	27.7	67.818	0		
6,500.0	6,500.0	6,495.9	6,495.3	14.5	13.7	102.37	1,878.1	1,849.9	28.1	66.735	0		
6,600.0	6,600.0	6,595.9	6,595.3	14.7	13.9	102.33	1,877.8	1,849.2	28.6	65.686	0		
6,700.0	6,700.0	6,695.9	6,695.2	14.9	14.2	102.30	1,877.5	1,848.5	29.0	64.669	0		
6,800.0	6,800.0	6,795.9	6,795.2	15.1	14.4	102.26	1,877.2	1,847.8	29.5	63.682	0		
6,900.0	6,900.0	6,895.8	6,895.2	15.4	14.6	102.22	1,877.0	1,847.0	29.9	62.725	0		
7,000.0	7,000.0	6,995.8	6,995.2	15.6	14.8	102.18	1,876.7	1,846.3	30.4	61.796	0		
7,100.0	7,100.0	7,095.8	7,095.2	15.8	15.0	102.14	1,876.4	1,845.6	30.8	60.892	0		
7,200.0	7,200.0	7,195.8	7,195.1	16.0	15.3	102.10	1,876.1	1,844.9	31.3	60.015	0		
7,300.0	7,300.0	7,295.8	7,295.1	16.3	15.5	102.06	1,875.9	1,844.1	31.7	59.162	0		
7,400.0	7,400.0	7,395.9	7,395.2	16.5	15.7	102.02	1,875.6	1,843.4	32.2	58.333	0		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2:00 sigma
Reference Wellbore	Original Hole	Database:	EDM:5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design Section 21-23S-34E Wildcat 21MP - Antbellum Unit #1 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 125-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
7,500.0	7,500.0	7,496.5	7,495.8	16.7	15.9	101.98	1,875.3	1,842.7	32.6	57.522	0			
7,600.0	7,600.0	7,597.2	7,596.5	16.9	16.2	101.93	1,875.0	1,841.9	33.0	56.733	0			
7,700.0	7,700.0	7,697.8	7,697.1	17.2	16.4	101.88	1,874.6	1,841.1	33.5	55.963	0			
7,800.0	7,800.0	7,798.4	7,797.7	17.4	16.6	101.82	1,874.2	1,840.3	33.9	55.213	0			
7,900.0	7,900.0	7,799.0	7,798.3	17.6	16.8	101.76	1,873.8	1,839.4	34.4	54.482	0			
8,000.0	8,000.0	7,799.4	7,798.6	17.8	17.1	101.69	1,873.3	1,838.5	34.8	53.768	0			
8,100.0	8,100.0	8,099.7	8,098.9	18.1	17.3	101.62	1,872.9	1,837.6	35.3	53.073	0			
8,200.0	8,200.0	8,200.0	8,199.1	18.3	17.5	101.55	1,872.4	1,836.6	35.7	52.394	0			
8,300.0	8,300.0	8,300.3	8,299.4	18.5	17.7	101.48	1,871.9	1,835.7	36.2	51.732	0			
8,400.0	8,400.0	8,400.6	8,399.7	18.7	18.0	101.40	1,871.4	1,834.7	36.6	51.085	0			
8,500.0	8,500.0	8,500.6	8,499.6	19.0	18.2	101.32	1,870.9	1,833.8	37.1	50.455	0			
8,600.0	8,600.0	8,600.5	8,599.5	19.2	18.4	101.24	1,870.3	1,832.8	37.5	49.839	0			
8,700.0	8,700.0	8,700.5	8,699.5	19.4	18.6	101.16	1,869.8	1,831.9	38.0	49.239	0			
8,800.0	8,800.0	8,800.5	8,799.4	19.6	18.9	101.08	1,869.3	1,830.9	38.4	48.652	0			
8,900.0	8,900.0	8,900.4	8,899.3	19.9	19.1	101.01	1,868.8	1,830.0	38.9	48.078	0			
9,000.0	9,000.0	9,000.4	8,999.3	20.1	19.3	100.93	1,868.3	1,829.0	39.3	47.518	0			
9,100.0	9,100.0	9,100.4	9,099.2	20.3	19.5	100.85	1,867.8	1,828.1	39.8	46.971	0			
9,200.0	9,200.0	9,200.3	9,199.1	20.5	19.8	100.77	1,867.4	1,827.1	40.2	46.435	0			
9,300.0	9,300.0	9,300.3	9,299.1	20.8	20.0	100.69	1,866.9	1,826.2	40.7	45.912	0			
9,400.0	9,400.0	9,400.3	9,399.0	21.0	20.2	100.61	1,866.4	1,825.3	41.1	45.399	0			
9,500.0	9,500.0	9,500.2	9,498.9	21.2	20.4	100.53	1,865.9	1,824.3	41.6	44.898	0			
9,600.0	9,600.0	9,600.2	9,598.9	21.4	20.7	100.45	1,865.4	1,823.4	42.0	44.408	0			
9,700.0	9,700.0	9,700.6	9,699.2	21.7	20.9	100.37	1,864.9	1,822.5	42.5	43.927	0			
9,800.0	9,800.0	9,801.1	9,799.7	21.9	21.1	100.29	1,864.4	1,821.5	42.9	43.454	0			
9,900.0	9,900.0	9,901.7	9,900.2	22.1	21.3	100.19	1,863.9	1,820.5	43.4	42.991	0			
10,000.0	10,000.0	10,002.2	10,000.7	22.3	21.6	100.10	1,863.3	1,819.5	43.8	42.537	0			
10,100.0	10,100.0	10,102.7	10,101.2	22.6	21.8	100.00	1,862.7	1,818.5	44.3	42.091	0			
10,200.0	10,200.0	10,202.8	10,201.2	22.8	22.0	99.89	1,862.1	1,817.4	44.7	41.655	0			
10,300.0	10,300.0	10,302.7	10,301.0	23.0	22.3	99.78	1,861.5	1,816.4	45.2	41.228	0			
10,400.0	10,400.0	10,402.7	10,400.9	23.2	22.5	99.68	1,861.0	1,815.4	45.6	40.809	0			
10,500.0	10,500.0	10,502.6	10,500.8	23.5	22.7	99.57	1,860.4	1,814.3	46.1	40.399	0			
10,600.0	10,600.0	10,602.5	10,600.7	23.7	22.9	99.47	1,859.8	1,813.3	46.5	39.996	0			
10,700.0	10,700.0	10,702.5	10,700.6	23.9	23.2	99.36	1,859.2	1,812.3	46.9	39.601	0			
10,800.0	10,800.0	10,802.4	10,800.4	24.1	23.4	99.25	1,858.7	1,811.3	47.4	39.214	0			
10,900.0	10,900.0	10,902.4	10,900.3	24.4	23.6	99.15	1,858.1	1,810.3	47.8	38.835	0			
11,000.0	11,000.0	11,002.3	11,000.2	24.6	23.8	99.04	1,857.5	1,809.3	48.3	38.462	0			
11,021.0	11,021.0	11,023.3	11,021.2	24.6	23.9	99.02	1,857.4	1,809.0	48.4	38.385	0			
11,025.0	11,025.0	11,027.3	11,025.2	24.6	23.9	99.01	1,857.4	1,808.8	48.5	38.261	0			
11,050.0	11,050.0	11,052.2	11,050.1	24.7	24.0	98.98	1,856.4	1,807.8	48.6	38.194	0			
11,075.0	11,074.9	11,077.1	11,074.9	24.7	24.0	98.94	1,854.1	1,805.5	48.6	38.150	0			
11,100.0	11,099.6	11,101.8	11,099.6	24.8	24.1	98.89	1,850.6	1,802.0	48.5	38.129	0			
11,125.0	11,124.2	11,126.3	11,124.2	24.8	24.1	98.82	1,845.8	1,797.3	48.4	38.129	0			
11,150.0	11,148.4	11,150.6	11,148.4	24.9	24.2	98.75	1,839.7	1,791.5	48.2	38.150	0			
11,175.0	11,172.3	11,174.5	11,172.3	24.9	24.2	98.67	1,832.4	1,784.4	48.0	38.188	0			
11,200.0	11,195.7	11,197.9	11,195.7	25.0	24.3	98.57	1,823.8	1,776.1	47.7	38.241	0			
11,225.0	11,218.6	11,220.8	11,218.5	25.0	24.3	98.47	1,814.1	1,766.7	47.4	38.307	0			
11,250.0	11,241.0	11,243.1	11,240.9	25.1	24.4	98.35	1,803.2	1,756.2	47.0	38.382	0			
11,275.0	11,262.8	11,264.8	11,262.5	25.1	24.5	98.23	1,791.2	1,744.6	46.6	38.461	0			
11,300.0	11,283.9	11,285.7	11,283.5	25.2	24.5	98.09	1,778.1	1,732.0	46.1	38.537	0			
11,325.0	11,304.2	11,305.9	11,303.6	25.3	24.5	97.94	1,764.0	1,718.3	45.7	38.604	0			
11,350.0	11,323.7	11,325.3	11,323.0	25.3	24.6	97.78	1,748.8	1,703.6	45.2	38.652	0			
11,375.0	11,342.4	11,343.7	11,341.4	25.4	24.6	97.62	1,732.7	1,687.9	44.8	38.671	0			
11,400.0	11,360.2	11,361.1	11,358.8	25.5	24.7	97.44	1,715.7	1,671.3	44.4	38.647	0			
11,425.0	11,377.0	11,377.5	11,375.2	25.6	24.7	97.25	1,697.8	1,653.7	44.0	38.562	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design Section 21-23S-34E Wildcat 21MP - Antbellum Unit #1 - Wellbore #1 - Wellbore #1													Offset Site Error: 0.0usft	
Survey Program: 125-MWD													Offset Well Error: 0.0usft	
Reference		Offset		Semi Major Axis		Distance					Risked Separation Factor	Probability of Collision	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,450.0	11,392.8	11,392.9	11,390.6	25.7	24.7	97.05	1,679.0	1,635.3	43.7	38.395	0			
11,475.0	11,407.5	11,407.3	11,404.9	25.8	24.8	96.84	1,659.6	1,616.1	43.5	38.124	0			
11,500.0	11,421.2	11,420.5	11,418.2	25.9	24.8	96.62	1,639.4	1,596.0	43.5	37.722	0			
11,525.0	11,433.7	11,432.7	11,430.3	26.1	24.8	96.38	1,618.6	1,575.1	43.6	37.162	0			
11,540.5	11,440.8	11,439.6	11,437.2	26.1	24.8	96.23	1,605.5	1,561.8	43.7	36.726	0			
11,550.0	11,445.0	11,443.7	11,441.3	26.2	24.8	96.14	1,597.2	1,553.6	43.6	36.599	0			
11,575.0	11,455.3	11,453.6	11,451.2	26.4	24.9	95.91	1,575.3	1,531.8	43.5	36.208	0			
11,600.0	11,464.5	11,462.4	11,460.0	26.5	24.9	95.69	1,552.7	1,509.2	43.5	35.722	0			
11,625.0	11,472.6	11,470.2	11,467.8	26.7	24.9	95.48	1,529.6	1,486.1	43.6	35.121	0			
11,650.0	11,479.6	11,476.9	11,474.5	26.9	24.9	95.29	1,506.1	1,462.3	43.8	34.378	0			
11,675.0	11,485.4	11,482.5	11,480.1	27.2	24.9	95.11	1,482.2	1,437.8	44.3	33.454	0			
11,700.0	11,490.1	11,486.9	11,484.5	27.4	24.9	94.96	1,457.9	1,412.7	45.2	32.283	0			
11,725.0	11,493.6	11,490.2	11,487.8	27.7	24.9	94.82	1,433.4	1,386.8	46.6	30.756	0			
11,750.0	11,495.9	11,492.4	11,489.9	27.9	24.9	94.70	1,408.6	1,359.6	49.0	28.731	0			
11,775.0	11,497.0	11,493.3	11,490.9	28.2	24.9	94.60	1,383.8	1,331.4	52.4	26.426	0			
11,796.7	11,497.0	11,493.2	11,490.8	28.4	24.9	94.53	1,362.2	1,310.7	51.5	26.452	0			
11,800.0	11,496.9	11,493.1	11,490.7	28.5	24.9	94.52	1,358.8	1,307.3	51.5	26.365	0			
11,900.0	11,494.9	11,490.6	11,488.1	29.7	24.9	94.23	1,259.1	1,206.1	52.9	23.779	0			
12,000.0	11,492.8	11,488.0	11,485.6	31.2	24.9	93.89	1,159.4	1,104.8	54.6	21.251	0			
12,100.0	11,490.8	11,485.5	11,483.0	32.8	24.9	93.49	1,059.7	1,003.4	56.3	18.809	0			
12,200.0	11,488.7	11,482.9	11,480.5	34.6	24.9	93.00	960.1	901.9	58.3	16.476	0			
12,300.0	11,486.6	11,480.3	11,477.9	36.5	24.9	92.39	860.6	800.3	60.3	14.263	0			
12,400.0	11,484.6	11,477.8	11,475.4	38.5	24.9	91.63	761.2	698.7	62.5	12.179	0			
12,500.0	11,482.5	11,475.2	11,472.8	40.6	24.9	90.65	662.0	597.3	64.8	10.223	0			
12,600.0	11,480.5	11,472.6	11,470.2	42.8	24.9	89.31	563.1	496.0	67.1	8.395	0			
12,700.0	11,478.4	11,470.1	11,467.7	45.0	24.9	87.41	464.6	395.1	69.4	6.690	0			
12,800.0	11,476.3	11,467.5	11,465.1	47.3	24.9	84.49	366.8	295.0	71.8	5.106	0			
12,900.0	11,474.3	11,464.9	11,462.5	49.6	24.9	79.47	270.8	196.5	74.3	3.646	0			
13,000.0	11,472.2	11,462.3	11,459.9	52.0	24.9	69.15	179.0	102.3	76.7	2.334	0			
13,100.0	11,470.2	11,459.8	11,457.4	54.4	24.9	41.22	103.7	24.6	79.1	1.311	0		Level 3	
13,156.5	11,469.0	11,458.3	11,455.9	55.8	24.9	8.20	86.9	6.5	80.4	1.081	0		Level 2 , CC, ES, SF	
13,200.0	11,468.1	11,457.2	11,454.8	56.9	24.9	-18.39	97.2	15.7	81.5	1.193	0		Level 2	
13,300.0	11,466.1	11,454.6	11,452.2	59.4	24.9	-50.61	167.7	83.9	83.8	2.001	0			
13,400.0	11,464.0	11,452.0	11,449.6	61.9	24.9	-62.17	258.5	172.3	86.2	3.000	0			
13,500.0	11,461.9	11,449.4	11,447.0	64.4	24.9	-67.61	354.2	265.8	88.4	4.006	0			
13,600.0	11,459.9	11,446.9	11,444.5	66.9	24.8	-70.72	451.8	361.1	90.6	4.984	0			
13,700.0	11,457.8	11,444.3	11,441.9	69.5	24.8	-72.73	550.2	457.4	92.8	5.929	0			
13,800.0	11,455.8	11,441.7	11,439.3	72.1	24.8	-74.12	649.1	554.2	94.9	6.842	0			
13,900.0	11,453.7	11,439.1	11,436.7	74.7	24.8	-75.15	748.3	651.4	96.9	7.723	0			
14,000.0	11,451.6	11,436.5	11,434.1	77.3	24.8	-75.93	847.7	748.9	98.8	8.578	0			
14,100.0	11,449.6	11,433.9	11,431.5	79.9	24.8	-76.55	947.2	846.5	100.7	9.408	0			
14,200.0	11,447.5	11,431.3	11,428.9	82.5	24.8	-77.05	1,046.8	944.3	102.5	10.217	0			
14,300.0	11,445.5	11,428.7	11,426.3	85.1	24.8	-77.47	1,146.4	1,042.3	104.1	11.008	0			
14,400.0	11,443.4	11,426.1	11,423.7	87.8	24.8	-77.81	1,246.1	1,140.4	105.8	11.783	0			
14,500.0	11,441.4	11,423.5	11,421.1	90.4	24.8	-78.11	1,345.9	1,238.6	107.3	12.545	0			
14,600.0	11,439.3	11,420.9	11,418.5	93.1	24.8	-78.37	1,445.6	1,336.9	108.7	13.296	0			
14,700.0	11,437.2	11,418.3	11,415.9	95.7	24.8	-78.59	1,545.4	1,435.3	110.1	14.037	0			
14,800.0	11,435.2	11,415.7	11,413.3	98.4	24.8	-78.79	1,645.2	1,533.9	111.4	14.771	0			
14,900.0	11,433.1	11,413.0	11,410.7	101.1	24.8	-78.96	1,745.1	1,632.5	112.6	15.498	0			
15,000.0	11,431.1	11,410.4	11,408.0	103.7	24.8	-79.11	1,844.9	1,731.2	113.7	16.221	0			
15,100.0	11,429.0	11,407.8	11,405.4	106.4	24.8	-79.25	1,944.8	1,830.0	114.8	16.939	0			
15,200.0	11,426.9	11,405.2	11,402.8	109.1	24.8	-79.38	2,044.7	1,928.8	115.8	17.655	0			
15,300.0	11,424.9	11,402.6	11,400.2	111.8	24.8	-79.49	2,144.5	2,027.8	116.8	18.368	0			
15,400.0	11,422.8	11,399.9	11,397.6	114.5	24.7	-79.60	2,244.4	2,126.8	117.6	19.080	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well-Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design: Section 21-23S-34E Wildcat 21MP - Antbellum Unit #1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 125-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi-Major Axis		Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Azimuth	Between	Between	Minimum	Separation	Risked	Probability	Warning
Depth	Depth	Depth	Depth			from North	Centres	Ellipses	Separation	Factor	Separation	of Collision	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor		
15,500.0	11,420.8	11,397.3	11,394.9	117.2	24.7	-79.69	2,344.3	2,225.9	118.5	19.791	0		
15,600.0	11,418.7	11,394.7	11,392.3	119.9	24.7	-79.78	2,444.2	2,325.0	119.2	20.502	0		
15,700.0	11,416.6	11,392.1	11,389.7	122.6	24.7	-79.86	2,544.1	2,424.2	119.9	21.212	0		
15,800.0	11,414.6	11,389.4	11,387.1	125.3	24.7	-79.93	2,644.0	2,523.4	120.6	21.923	0		
15,900.0	11,412.5	11,386.8	11,384.4	128.0	24.7	-80.00	2,744.0	2,622.7	121.2	22.634	0		
16,000.0	11,410.5	11,384.1	11,381.8	130.7	24.7	-80.06	2,843.9	2,722.1	121.8	23.346	0		
16,100.0	11,408.4	11,381.5	11,379.2	133.4	24.7	-80.12	2,943.8	2,821.4	122.4	24.058	0		
16,168.8	11,407.0	11,379.7	11,377.3	135.3	24.7	-80.16	3,012.5	2,889.8	122.7	24.549	0		



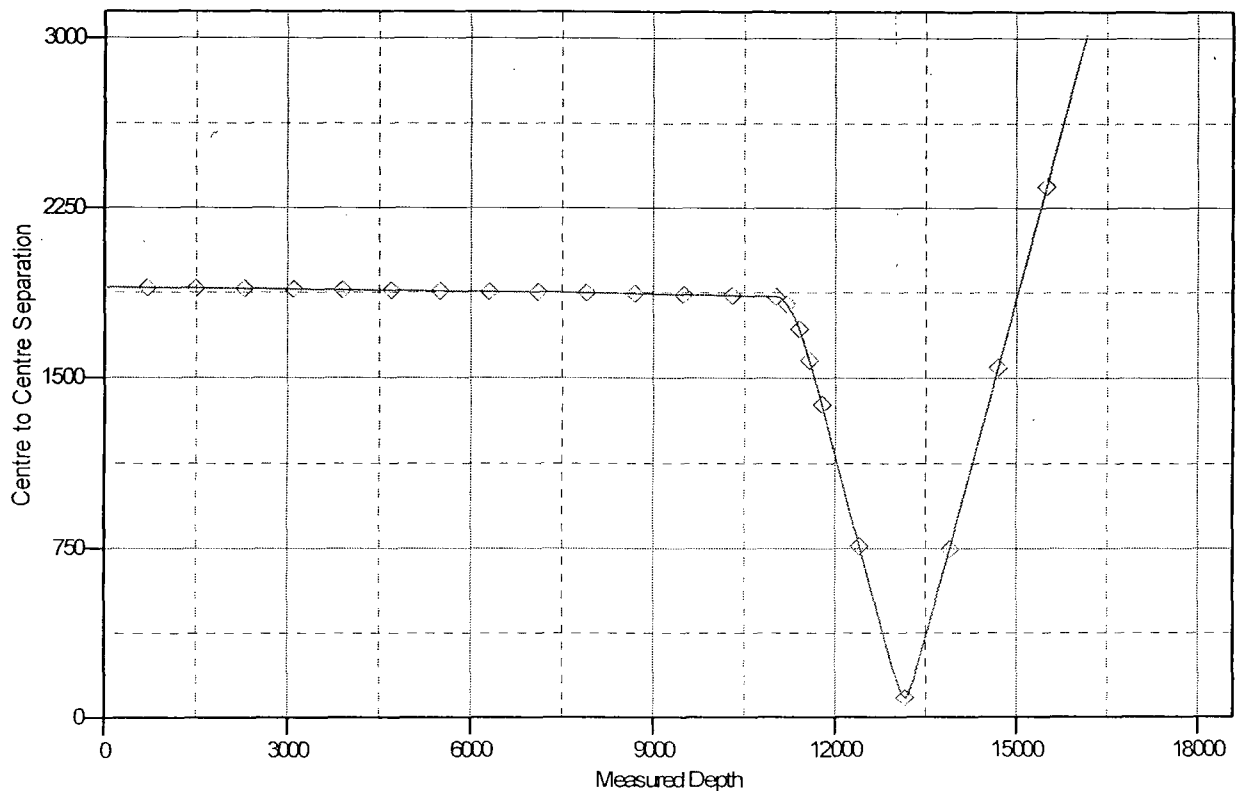
Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2:00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 3497 + 20 @ 3517.0usft (Patterson Coordinates are relative to: Wildcat 21 MP Fed Com #1H
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W °
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

Antbellum Unit#1, Wellbore#1, Wellbore#1 V0

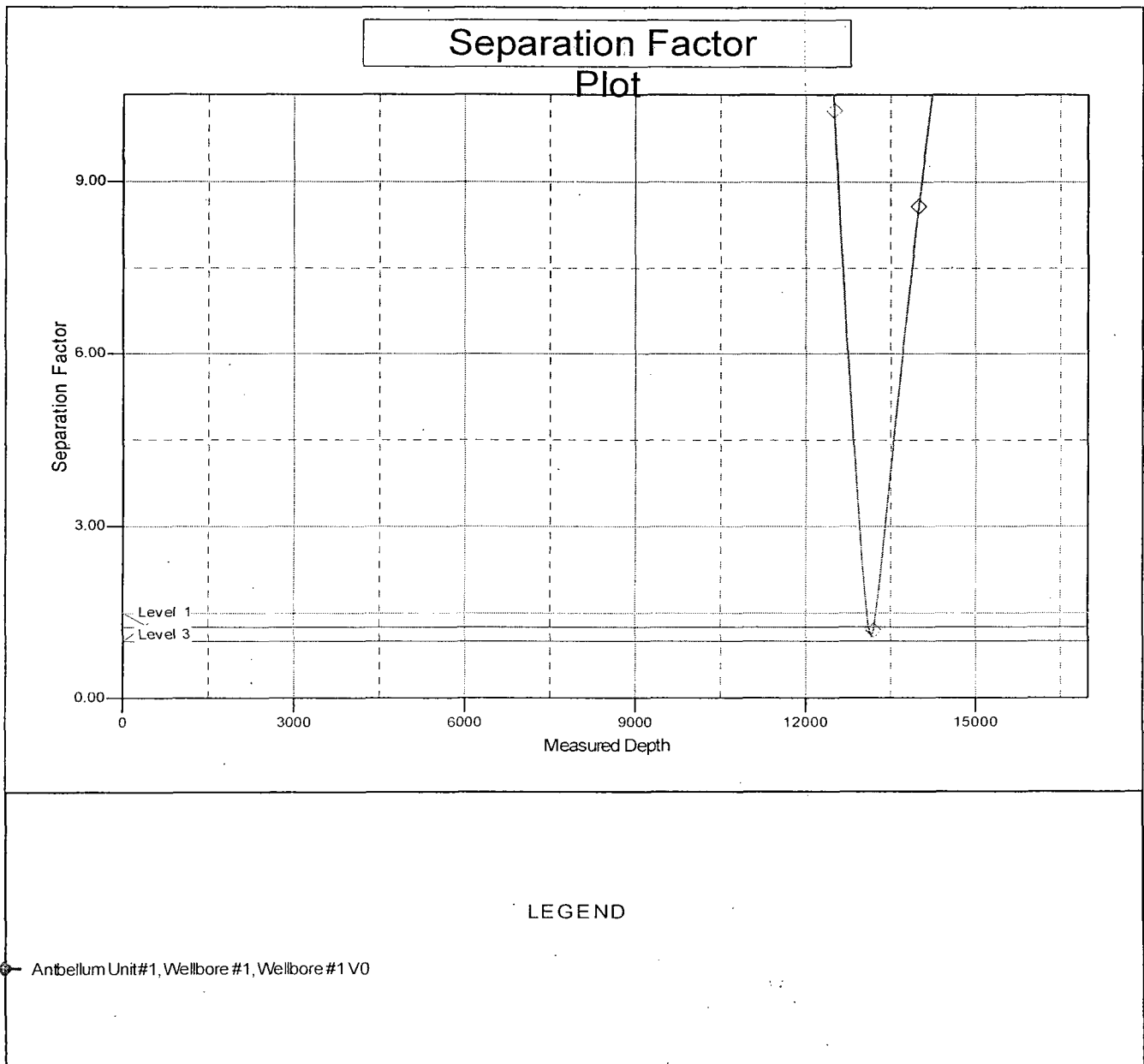


Stryker Directional Anticollision Risk Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 MP Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Reference Site:	Section 21-23S-34E Wildcat 21MP	MD Reference:	GL 3497 + 20 @ 3517.0usft (Patterson #80)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Wildcat 21 MP Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 3497 + 20 @ 3517.0usft (Patterson Coordinates are relative to: Wildcat 21 MP Fed Com #1H
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W °
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.45°





COMPANY: Mewbourne Oil Company
WELL: Wildcat 21 MP Fed Com #1H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson #80

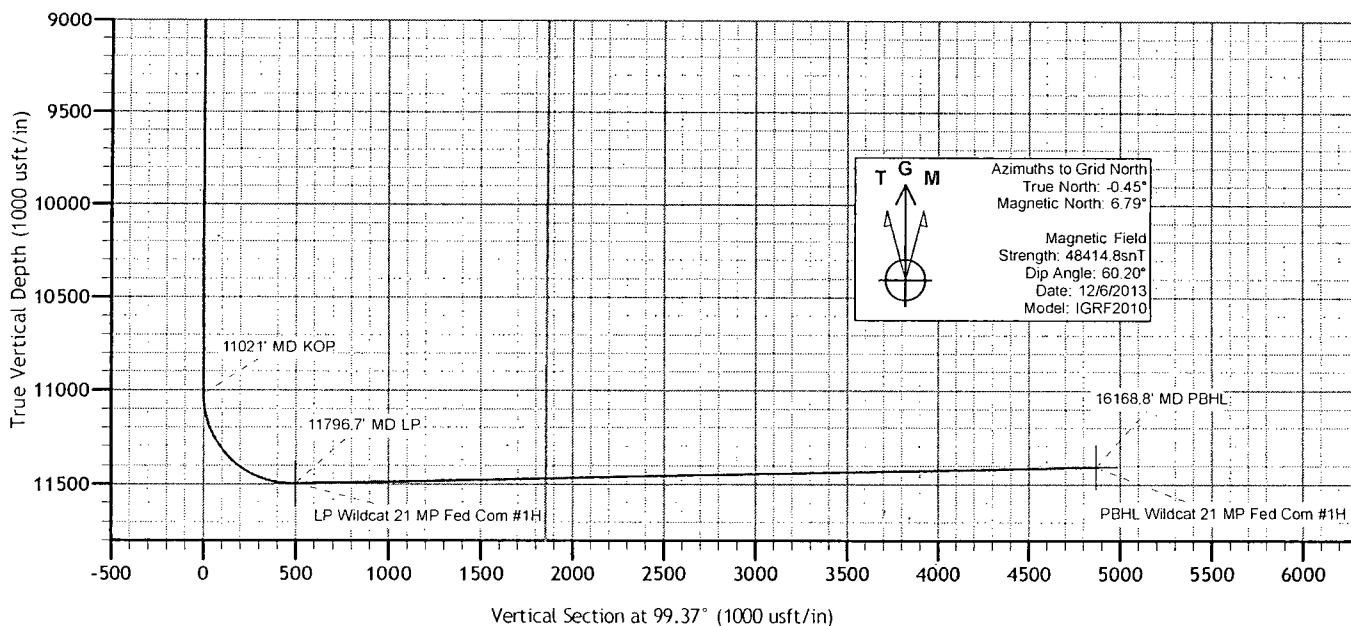
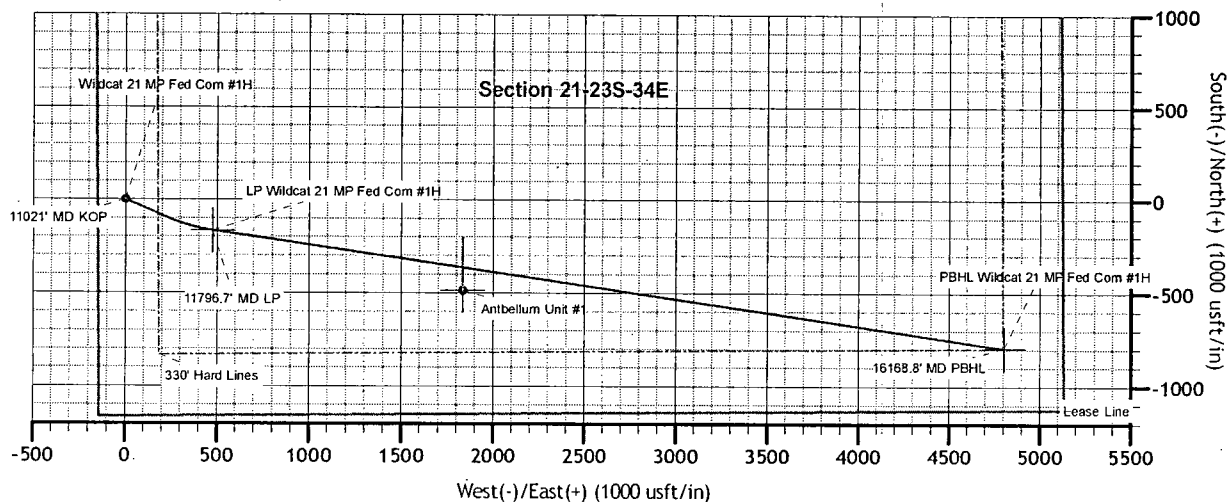


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.79°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico Eastern Zone										Slot
GL 3497 + 20 @ 3517.0usft (Patterson #80)										
GROUND ELEVATION: 3497.0										
+N-S	+E-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	468838.70	804096.30	32° 17' 9.775 N	103° 28' 58.997 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	11021.0	0.00	0.00	11021.0	0.0	0.0	0.00	0.00	0.0	
3	11540.5	63.38	113.05	11440.8	-101.5	238.5	12.20	113.05	251.8	
4	11796.7	91.18	98.24	11497.0	-166.3	476.5	12.20	-29.51	497.3	LP Wildcat 21 MP Fed Com #1H
5	16168.8	91.18	98.24	11407.0	-792.8	4802.6	0.00	0.00	4867.6	PBHL Wildcat 21 MP Fed Com #1H

DESIGN TARGET DETAILS										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
Antbellum Unit #01		-485.8	1834.4	468352.93	805930.74	32° 17' 4.824 N	103° 28' 37.674 W	Point		
- plan misses target center by 1897.7usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)										
PBHL Wildcat 21 MP Fed Com #1H	11407.0	-792.8	4802.6	468045.90	808898.90	32° 17' 1.550 N	103° 28' 3.129 W	Point		
- plan hits target center										
LP Wildcat 21 MP Fed Com #1H	11497.0	-166.3	476.5	468672.41	804572.83	32° 17' 8.092 N	103° 28' 53.462 W	Point		
- plan hits target center										



11" 3M BOPE & Closed Loop Equipment Schematic

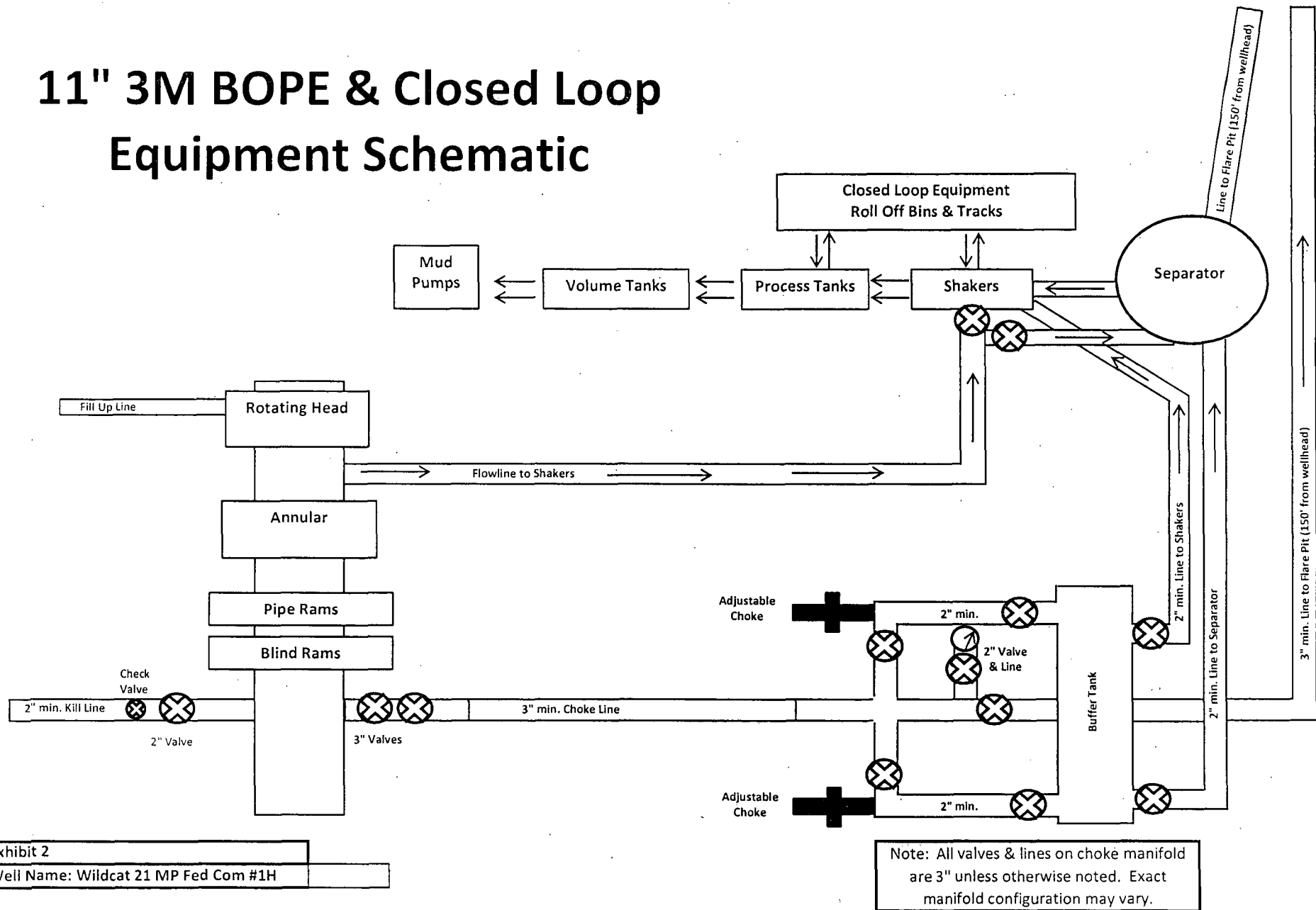


Exhibit 2
Well Name: Wildcat 21 MP Fed Com #1H

13 5/8" 2M BOPE & Closed Loop Equipment Schematic

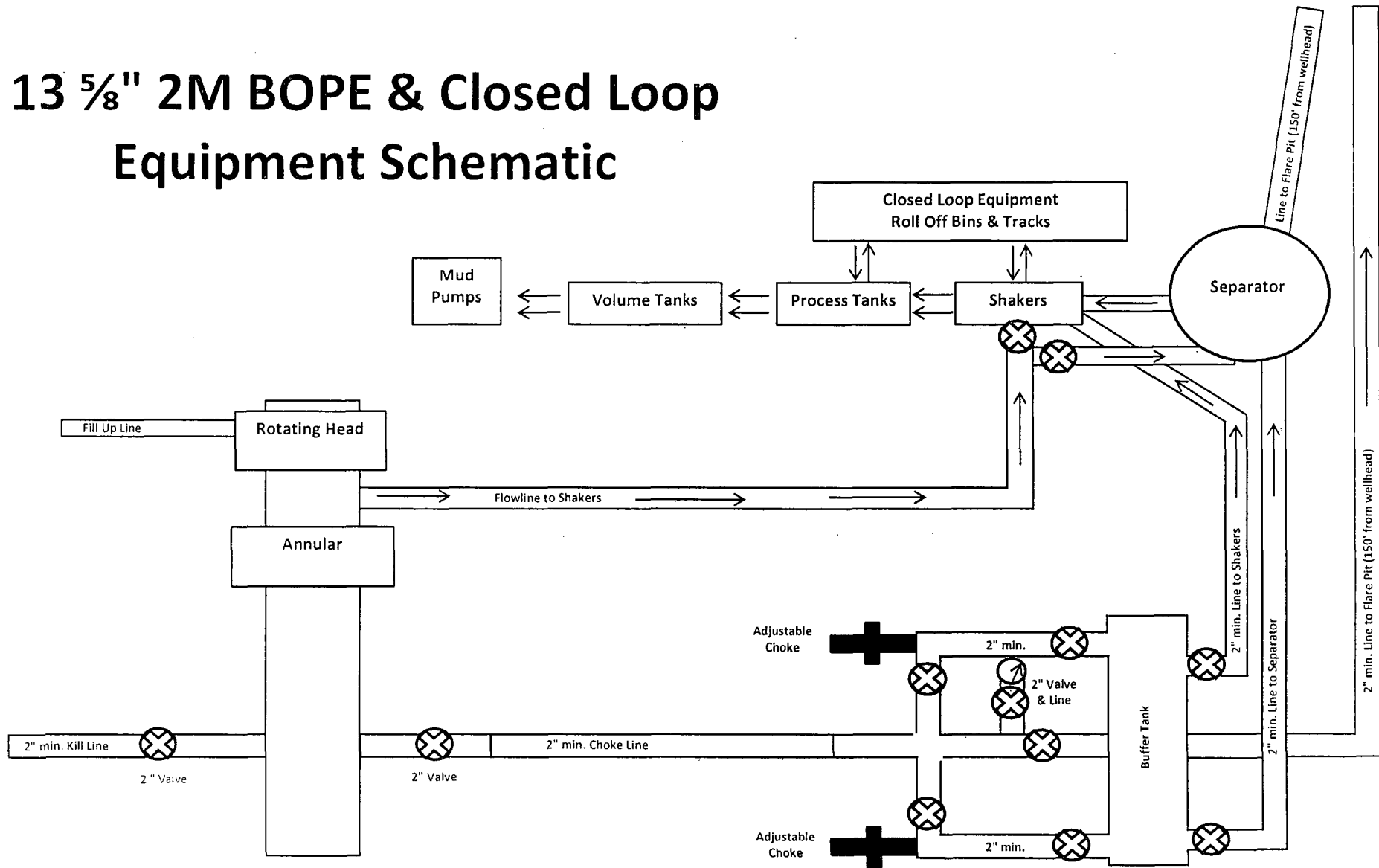


Exhibit 2A
Well Name: Wildcat 21 MP Fed Com #1H

H2S Diagram
Closed Loop Pad Dimensions 280' x 320'

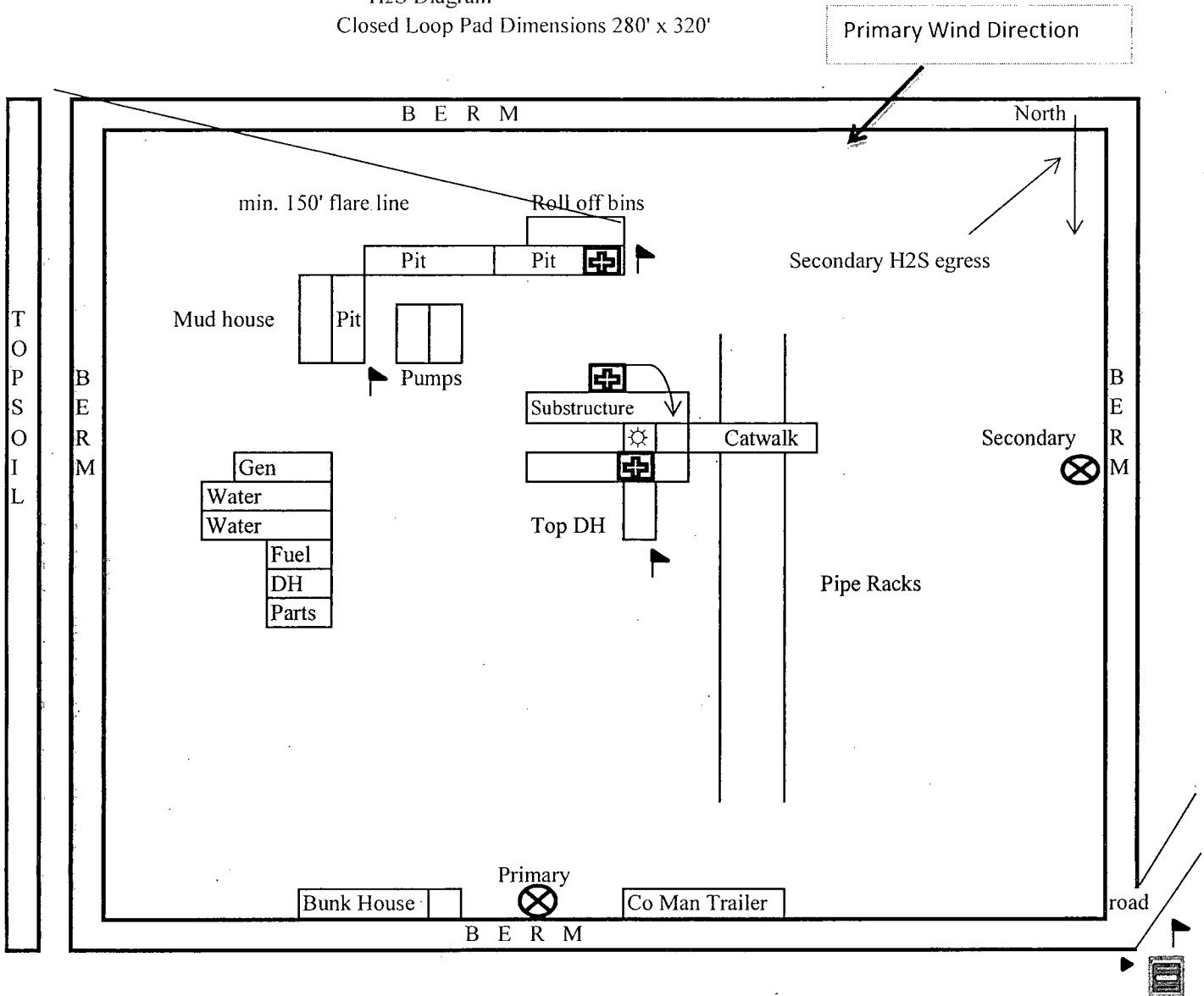


Exhibit 5



= H2S Monitors



= Wind Markers



= Safety Stations



= Warning Signs

Mewbourne Oil Company
Wildcat 21 MP Fed Com #1H
1160' FSL & 150' FWL
Sec. 21 T23S R34E
Lea County, NM

Closed Loop Pad Dimensions 280' x 320'

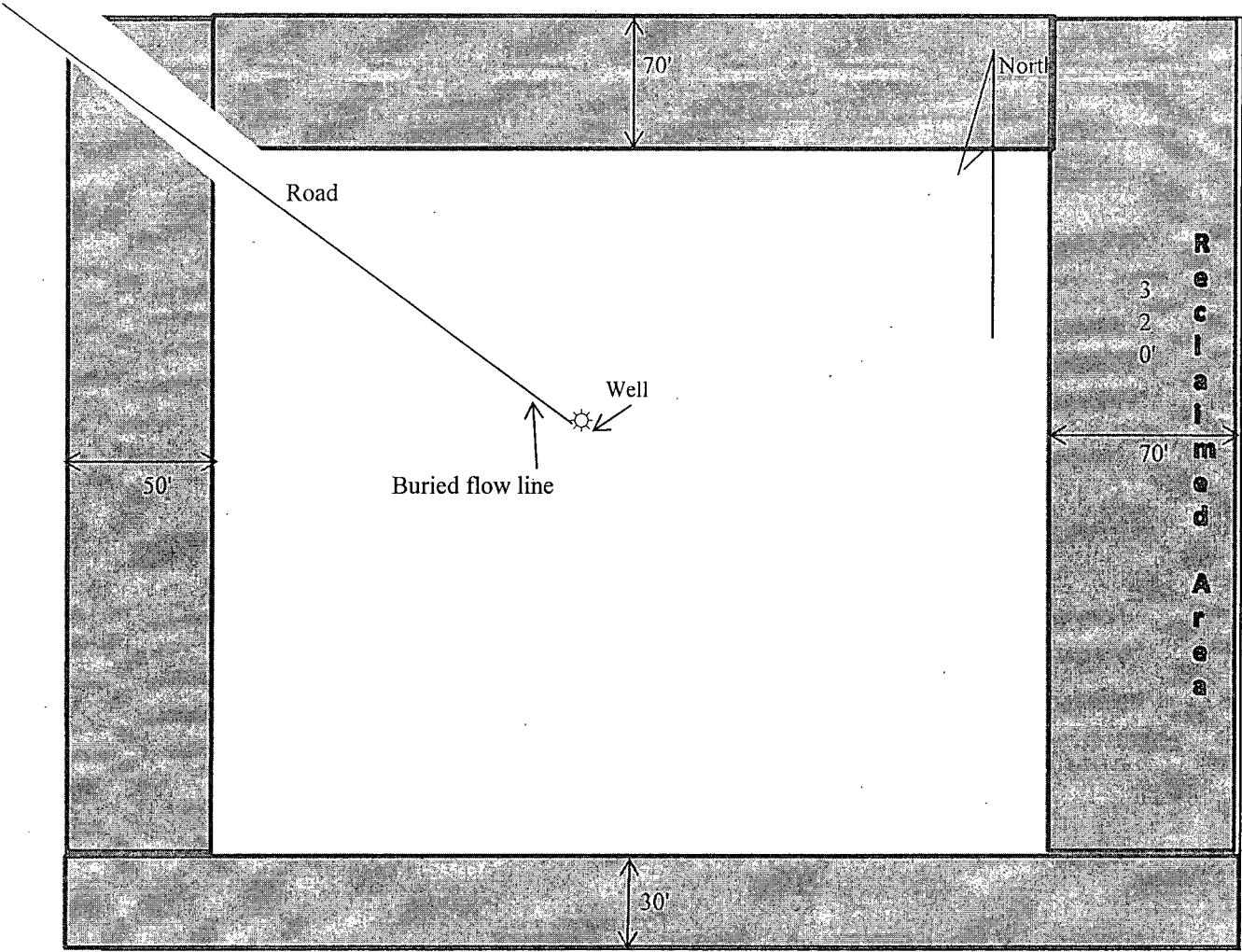
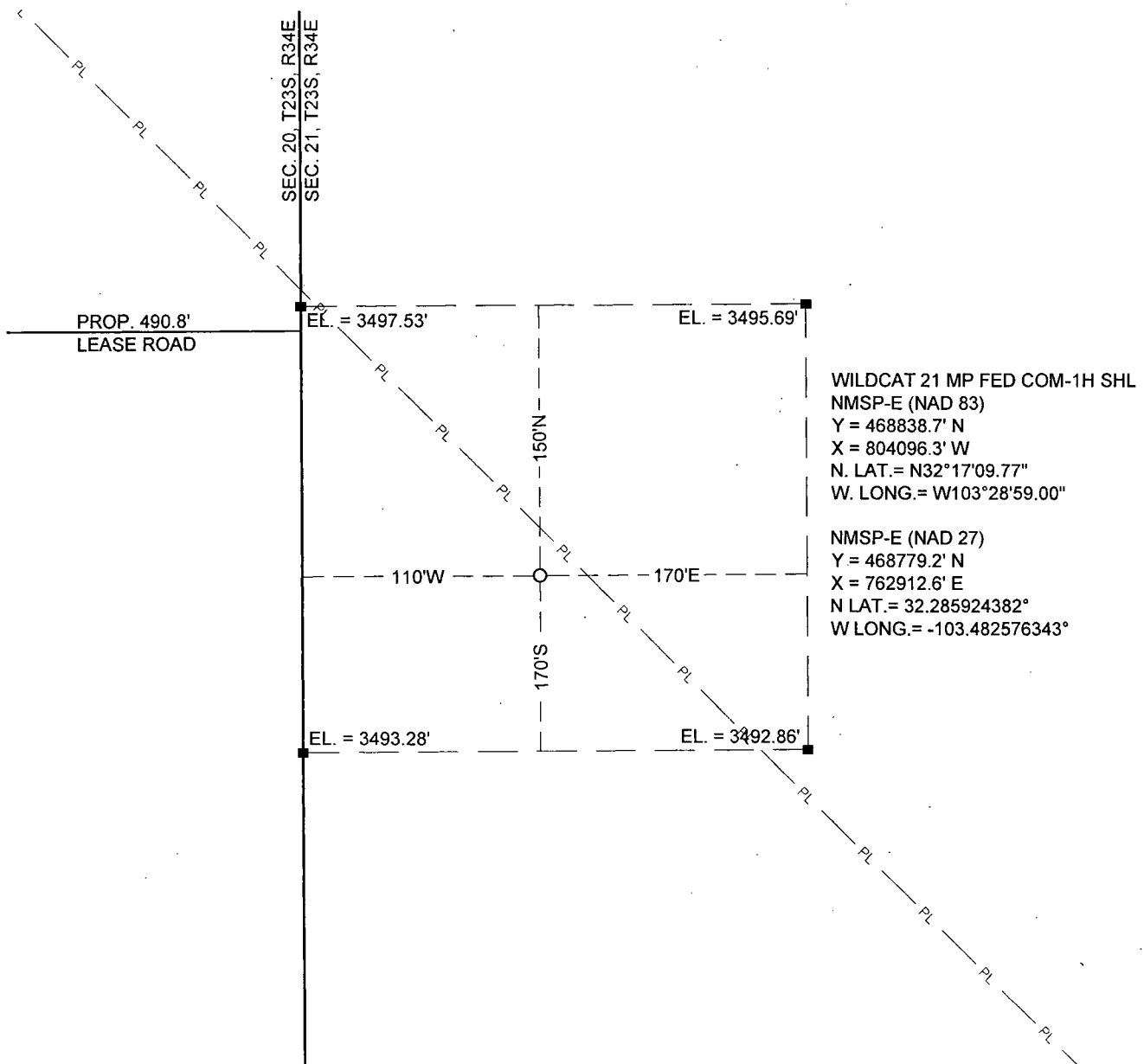


Exhibit 6

Mewbourne Oil Company
Wildcat 21 MP Fed Com #1H
1160' FSL & 150' FWL
Sec. 21 T23S R34E
Lea County, NM

SITE LOCATION



SECTION 21,T 23 S, R 34 E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 1160' FSL & 150' FWL

OPERATOR: MEWBOURNE OIL COMPANY

WELL NAME: WILDCAT 21 MP FED COM-1H

DRIVING DIRECTIONS:

From the intersection of the Delaware Basin Road & Antelope Road. Go south on Antelope Road 2.9 miles to a lease road right. Go west on lease road for 0.75 mile to a trail road right. Go north 0.1 mile to the proposed lease road right and the location flag is $\pm 660'$ southeast.



WEST TEXAS CONSULTANTS, INC.
ENGINEERS PLANNERS SURVEYORS
405 S.W. 1st. STREET
ANDREWS, TEXAS 79714
(432) 523-2181

MEWBOURNE OIL COMPANY

JOB No.: WTC48915

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