

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OCD ArtesiaFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease No.
NMNM19199

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

CAL-MON MDP1 35 FEDERAL 6H

2. Name of Operator
OXY USA INCContact: DAVID STEWART
E-Mail: david_stewart@oxy.com

9. API Well No.

30-015-44776

3a. Address
P.O. BOX 50250
MIDLAND, TX 797103b. Phone No. (include area code)
Ph: 432-685-571710. Field and Pool or Exploratory Area
COTTON DRAW BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 35 T23S R31E NENE 110FNL 855FEL
32.267874 N Lat, 103.742816 W Lon

11. County or Parish, State

EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

OXY USA Inc. respectfully request that the filed APD for the Cal-Mon MDP1 35 Federal #6H APD No. 10400015555 be amended due to a buried pipeline on the proposed pad. The well was moved 14' east of the original location.

Please see attached for the following amended attachments.

1. C-102
2. Drilling Plan
3. Directional Plan/Plot
4. SUPO
5. Site Plan/Rig Diagram/Misc Survey Plats
6. Staking Form

SEE ATTACHED FOR
CONDITIONS OF APPROVALNM OIL CONSERVATION
ARTESIA DISTRICT

FEB 20 2018

RECEIVED

12/2018: Engineering review completed by M Hague
-12-18 NRS JB USE EXISTING COA'S

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #404247 verified by the BLM Well Information System
For OXY USA INC, sent to the Carlsbad
Committed to AFMSS for processing by MUSTAFA HAQUE on 02/12/2018 ()

Name (Printed/Typed) DAVID STEWART

Title SR. REGULATORY ADVISOR

Signature (Electronic Submission)

Date 02/12/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Cody H. [Signature]

Title

JPM - Linda E. [Signature]

Date

12/13/2018

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

CFO

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.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RUP 2-21-18

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FEB 20 2018

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☒ AMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6141 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Branson Road, Amon, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30015-	Pool Code 13367	Pool Name Cotton Draw Bone Spring
Property Code	Property Name CAL-MON MDP1 "35" FEDERAL	Well Number 6H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3469.2'

Surface Location **MOVED 141' East**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	35	23 SOUTH	31 EAST, N.M.P.M.		110'	NORTH	855'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	23 SOUTH	31 EAST, N.M.P.M.		180'	SOUTH	440'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160	Y		

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

SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
Y=461687.57 US FT
X=723858.17 US FT
LAT: N 32.2678735'
LONG: W 103.7428156'

KICK OFF POINT
NEW MEXICO EAST
NAD 1983
Y=461749.22 US FT
X=724272.64 US FT
LAT: N 32.2680366'
LONG: W 103.7414729'

TOP PERF.
NEW MEXICO EAST
NAD 1983
Y=461493.12 US FT
X=724274.38 US FT
LAT: N 32.2672395'
LONG: W 103.7414731'

BOTTOM PERF.
NEW MEXICO EAST
NAD 1983
Y=458862.16 US FT
X=724298.71 US FT
LAT: N 32.2546030'
LONG: W 103.7414764'

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1983
Y=458702.16 US FT
X=724298.56 US FT
LAT: N 32.2541632'
LONG: W 103.7414765'

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

David Stewart
Signature
1/23/18
Date

David Stewart
Printed Name
david.stewart@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the information shown on this plat was prepared from a true and correct survey made by me or under my supervision and that the same is true and correct to the best of my belief.

ERRY J. AS
Signature
15079
Date of Survey
1/16/2018
Professional Land Surveyor

Terry J. As
Signature
15079
Certificate Number

OXY USA Inc. - Cal-Mon MDP1 35 Federal 6H – Drill Plan(1)

1. Geologic Formations

TVD of target	10191'	Pilot Hole Depth	N/A
MD at TD:	15014'	Deepest Expected fresh water:	785'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	785	Brine
Salado	1090	Brine/Losses
Castile	2965	
Lamar/Delaware	4415	
Bell Canyon	4471	Brine
Cherry Canyon	5236	Oil/Gas
Brushy Canyon	6611	Oil/Gas/Losses
Bone Spring	8289	Oil/Gas
1st Bone Spring	9362	Oil/Gas
2nd Bone Spring	9616	Oil/Gas

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

2. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	Buoyant Buoyant			
	From (ft)	To (ft)					SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
17.5	0	835	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4465	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
8.5	0	15014	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

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

*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage we will drop a cancellation cone and not pump the second stage.

	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.	Y
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

OXY USA Inc. - Cal-Mon MDP1 35 Federal 6H – Drill Plan(1)

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?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd 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)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface	795	14.2	1.68	6.53	6:50	Class C Cement, Accelerator
Intermediate	1291	12.9	1.74	8.67	15:07	Pozzolan Cement, Retarder
Casing	157	14.8	1.326	6.34	6:31	Class C Cement, Retarder, Dispersant, Salt
Production	690	10.2	3.057	15.65	19:09	Class C Cement
Casing	953	13.2	1.631	8.37	15:15	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top of Lead (ft)	Bottom of Lead (ft)	Top of Tail (ft)	Bottom of Tail (ft)	% Excess Lead	% Excess Tail
Surface	N/A	N/A	0	835	N/A	100%
Intermediate Casing	0	3965	3965	4465	75%	20%
Production Casing	3965	9139	9139	15014	75%	15%

OXY USA Inc. - Cal-Mon MDP1 35 Federal 6H – Drill Plan(1)

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
			Blind Ram	✓	250/5000psi
			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.

	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.
	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	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. 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. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

OXY USA Inc. - Cal-Mon MDP1 35 Federal 6H – Drill Plan(1)

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	835	Water-Based Mud	8.4-8.6	40-60	N/C
835	4465	Brine	9.8-10.0	35-45	N/C
4465	15014	Oil-Based Mud	8.2-9.2	38-50	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. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). 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.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned		Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

OXY USA Inc. - Cal-Mon MDP1 35 Federal 6H – Drill Plan(1)

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5088 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	162°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

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.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the four well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total estimated cuttings volume: 1518 bbls.

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Philippe Haffner	Drilling Engineer	713-985-6379	832-767-9047
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

Oxy

Planning Report

Database: HOPSPP Company: ENGINEERING DESIGNS Project: PRD NM DIRECTIONAL PLANS (NAD 1983) Site: CAL-MON MDP1 35 FED Well: CAL-MON MDP1 35 FED 6H Wellbore: WB00 Design: Permitting Plan	Local Co-ordinate Reference: Well CAL-MON MDP1 35 FED 6H TVD Reference: Datum @ 3494.70ft MD Reference: Datum @ 3494.70ft North Reference: Grid Survey Calculation Method: Minimum Curvature	
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Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site CAL-MON MDP1 35 FED

Site Position:	Northing:	461,672.99 usft	Latitude:	32° 16' 4.386302 N
From: Map	Easting:	720,407.82 usft	Longitude:	103° 45' 14.322166 W
Position Uncertainty:	Slot Radius:	13.200 in	Grid Convergence:	0.31 °

Well CAL-MON MDP1 35 FED 6H

Well Position	+N-S	14.58 ft	Northing:	461,687.57 usft	Latitude:	32° 16' 4.344480 N
	+E-W	3,450.54 ft	Easting:	723,858.17 usft	Longitude:	103° 44' 34.135938 W
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,468.20 ft

Wellbore WB00

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/24/2017	6.93	60.05	48,182

Design Permitting Plan

Audit Notes:

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.00	0.00	0.00	174.94

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,725.00	0.00	0.00	6,725.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,224.72	9.99	81.54	7,222.19	6.39	43.00	2.00	2.00	0.00	81.54	
9,139.44	9.99	81.54	9,107.85	55.26	371.69	0.00	0.00	0.00	0.00	
9,639.16	0.00	179.70	9,605.04	61.65	414.69	2.00	-2.00	0.00	180.00	CAL-MON MDP1 35
10,537.16	89.80	179.70	10,177.99	-509.30	417.72	10.00	10.00	0.00	179.70	
15,013.63	89.87	179.70	10,191.00	-4,985.68	441.41	0.00	0.00	0.00	0.00	CAL-MON MDP1 35

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CAL-MON MDP1 35 FED
Well: CAL-MON MDP1 35 FED 6H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CAL-MON MDP1 35 FED 6H
TVD Reference: Datum @ 3494.70ft
MD Reference: Datum @ 3494.70ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Buird Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CAL-MON MDP1 35 FED
Well: CAL-MON MDP1 35 FED 6H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CAL-MON MDP1 35 FED 6H
TVD Reference: Datum @ 3494.70ft
MD Reference: Datum @ 3494.70ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,725.00	0.00	0.00	6,725.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	1.50	81.54	6,799.99	0.14	0.97	-0.06	2.00	2.00	0.00
6,900.00	3.50	81.54	6,899.89	0.79	5.29	-0.32	2.00	2.00	0.00
7,000.00	5.50	81.54	6,999.58	1.94	13.05	-0.78	2.00	2.00	0.00
7,100.00	7.50	81.54	7,098.93	3.60	24.24	-1.45	2.00	2.00	0.00
7,200.00	9.50	81.54	7,197.83	5.78	38.86	-2.33	2.00	2.00	0.00
7,224.72	9.99	81.54	7,222.19	6.39	43.00	-2.58	2.00	2.00	0.00
7,300.00	9.99	81.54	7,296.33	8.31	55.92	-3.35	0.00	0.00	0.00
7,400.00	9.99	81.54	7,394.81	10.87	73.09	-4.38	0.00	0.00	0.00
7,500.00	9.99	81.54	7,493.29	13.42	90.26	-5.41	0.00	0.00	0.00
7,600.00	9.99	81.54	7,591.77	15.97	107.42	-6.43	0.00	0.00	0.00
7,700.00	9.99	81.54	7,690.26	18.52	124.59	-7.46	0.00	0.00	0.00
7,800.00	9.99	81.54	7,788.74	21.08	141.76	-8.49	0.00	0.00	0.00
7,900.00	9.99	81.54	7,887.22	23.63	158.92	-9.52	0.00	0.00	0.00
8,000.00	9.99	81.54	7,985.70	26.18	176.09	-10.55	0.00	0.00	0.00
8,100.00	9.99	81.54	8,084.19	28.73	193.26	-11.58	0.00	0.00	0.00
8,200.00	9.99	81.54	8,182.67	31.28	210.42	-12.60	0.00	0.00	0.00
8,300.00	9.99	81.54	8,281.15	33.84	227.59	-13.63	0.00	0.00	0.00
8,400.00	9.99	81.54	8,379.63	36.39	244.76	-14.66	0.00	0.00	0.00
8,500.00	9.99	81.54	8,478.12	38.94	261.92	-15.69	0.00	0.00	0.00
8,600.00	9.99	81.54	8,576.60	41.49	279.09	-16.72	0.00	0.00	0.00
8,700.00	9.99	81.54	8,675.08	44.05	296.26	-17.75	0.00	0.00	0.00
8,800.00	9.99	81.54	8,773.56	46.60	313.42	-18.77	0.00	0.00	0.00
8,900.00	9.99	81.54	8,872.05	49.15	330.59	-19.80	0.00	0.00	0.00
9,000.00	9.99	81.54	8,970.53	51.70	347.75	-20.83	0.00	0.00	0.00
9,100.00	9.99	81.54	9,069.01	54.25	364.92	-21.86	0.00	0.00	0.00
9,139.44	9.99	81.54	9,107.85	55.26	371.69	-22.25	0.00	0.00	0.00
9,200.00	8.78	81.54	9,167.60	56.71	381.46	-22.85	2.00	-2.00	0.00
9,300.00	6.78	81.54	9,266.67	58.70	394.86	-23.65	2.00	-2.00	0.00
9,400.00	4.78	81.54	9,366.16	60.19	404.82	-24.25	2.00	-2.00	0.00
9,500.00	2.78	81.54	9,465.94	61.16	411.35	-24.64	2.00	-2.00	0.00
9,600.00	0.78	81.54	9,565.88	61.61	414.43	-24.82	2.00	-2.00	0.00
9,639.16	0.00	179.70	9,605.04	61.65	414.69	-24.84	2.00	-2.00	0.00
9,700.00	6.08	179.70	9,665.77	58.43	414.71	-21.62	10.00	10.00	0.00
9,800.00	16.08	179.70	9,763.78	39.23	414.81	-2.49	10.00	10.00	0.00
9,900.00	26.08	179.70	9,856.97	3.30	415.00	33.32	10.00	10.00	0.00
10,000.00	36.08	179.70	9,942.50	-48.27	415.27	84.70	10.00	10.00	0.00
10,100.00	46.08	179.70	10,017.78	-113.90	415.62	150.11	10.00	10.00	0.00
10,200.00	56.08	179.70	10,080.51	-191.61	416.03	227.55	10.00	10.00	0.00
10,300.00	66.08	179.70	10,128.81	-279.03	416.50	314.67	10.00	10.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well CAL-MON MDP1 35 FED 6H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3494.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3494.70ft
Site:	CAL-MON MDP1 35 FED	North Reference:	Grid
Well:	CAL-MON MDP1 35 FED 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,400.00	76.08	179.70	10,161.18	-373.51	417.00	408.83	10.00	10.00	0.00
10,500.00	86.08	179.70	10,176.66	-472.17	417.52	507.15	10.00	10.00	0.00
10,537.16	89.80	179.70	10,177.99	-509.30	417.72	544.15	10.00	10.00	0.00
10,600.00	89.80	179.70	10,178.21	-572.14	418.05	606.78	0.00	0.00	0.00
10,700.00	89.80	179.70	10,178.56	-672.14	418.58	706.43	0.00	0.00	0.00
10,800.00	89.80	179.70	10,178.90	-772.13	419.11	806.09	0.00	0.00	0.00
10,900.00	89.81	179.70	10,179.24	-872.13	419.64	905.74	0.00	0.00	0.00
11,000.00	89.81	179.70	10,179.58	-972.13	420.17	1,005.40	0.00	0.00	0.00
11,100.00	89.81	179.70	10,179.92	-1,072.13	420.70	1,105.05	0.00	0.00	0.00
11,200.00	89.81	179.70	10,180.25	-1,172.13	421.22	1,204.71	0.00	0.00	0.00
11,300.00	89.81	179.70	10,180.58	-1,272.12	421.75	1,304.36	0.00	0.00	0.00
11,400.00	89.81	179.70	10,180.91	-1,372.12	422.28	1,404.02	0.00	0.00	0.00
11,500.00	89.81	179.70	10,181.23	-1,472.12	422.81	1,503.67	0.00	0.00	0.00
11,600.00	89.82	179.70	10,181.56	-1,572.12	423.34	1,603.33	0.00	0.00	0.00
11,700.00	89.82	179.70	10,181.88	-1,672.12	423.87	1,702.98	0.00	0.00	0.00
11,800.00	89.82	179.70	10,182.19	-1,772.11	424.40	1,802.64	0.00	0.00	0.00
11,900.00	89.82	179.70	10,182.51	-1,872.11	424.93	1,902.29	0.00	0.00	0.00
12,000.00	89.82	179.70	10,182.82	-1,972.11	425.46	2,001.95	0.00	0.00	0.00
12,100.00	89.82	179.70	10,183.13	-2,072.11	425.99	2,101.60	0.00	0.00	0.00
12,200.00	89.82	179.70	10,183.44	-2,172.11	426.52	2,201.26	0.00	0.00	0.00
12,300.00	89.83	179.70	10,183.74	-2,272.11	427.05	2,300.91	0.00	0.00	0.00
12,400.00	89.83	179.70	10,184.04	-2,372.10	427.58	2,400.57	0.00	0.00	0.00
12,500.00	89.83	179.70	10,184.34	-2,472.10	428.11	2,500.22	0.00	0.00	0.00
12,600.00	89.83	179.70	10,184.64	-2,572.10	428.64	2,599.88	0.00	0.00	0.00
12,700.00	89.83	179.70	10,184.93	-2,672.10	429.17	2,699.53	0.00	0.00	0.00
12,800.00	89.83	179.70	10,185.22	-2,772.10	429.70	2,799.19	0.00	0.00	0.00
12,900.00	89.84	179.70	10,185.51	-2,872.09	430.22	2,898.85	0.00	0.00	0.00
13,000.00	89.84	179.70	10,185.80	-2,972.09	430.75	2,998.50	0.00	0.00	0.00
13,100.00	89.84	179.70	10,186.08	-3,072.09	431.28	3,098.16	0.00	0.00	0.00
13,200.00	89.84	179.70	10,186.36	-3,172.09	431.81	3,197.81	0.00	0.00	0.00
13,300.00	89.84	179.70	10,186.64	-3,272.09	432.34	3,297.47	0.00	0.00	0.00
13,400.00	89.84	179.70	10,186.92	-3,372.09	432.87	3,397.12	0.00	0.00	0.00
13,500.00	89.84	179.70	10,187.19	-3,472.08	433.40	3,496.78	0.00	0.00	0.00
13,600.00	89.85	179.70	10,187.46	-3,572.08	433.93	3,596.43	0.00	0.00	0.00
13,700.00	89.85	179.70	10,187.73	-3,672.08	434.46	3,696.09	0.00	0.00	0.00
13,800.00	89.85	179.70	10,187.99	-3,772.08	434.99	3,795.74	0.00	0.00	0.00
13,900.00	89.85	179.70	10,188.25	-3,872.08	435.52	3,895.40	0.00	0.00	0.00
14,000.00	89.85	179.70	10,188.51	-3,972.07	436.05	3,995.05	0.00	0.00	0.00
14,100.00	89.85	179.70	10,188.77	-4,072.07	436.58	4,094.71	0.00	0.00	0.00
14,200.00	89.85	179.70	10,189.03	-4,172.07	437.11	4,194.36	0.00	0.00	0.00
14,300.00	89.86	179.70	10,189.28	-4,272.07	437.64	4,294.02	0.00	0.00	0.00
14,400.00	89.86	179.70	10,189.53	-4,372.07	438.17	4,393.67	0.00	0.00	0.00
14,500.00	89.86	179.70	10,189.77	-4,472.07	438.70	4,493.33	0.00	0.00	0.00
14,600.00	89.86	179.70	10,190.02	-4,572.06	439.22	4,592.99	0.00	0.00	0.00
14,700.00	89.86	179.70	10,190.26	-4,672.06	439.75	4,692.64	0.00	0.00	0.00
14,800.00	89.86	179.70	10,190.50	-4,772.06	440.28	4,792.30	0.00	0.00	0.00
14,900.00	89.87	179.70	10,190.73	-4,872.06	440.81	4,891.95	0.00	0.00	0.00
15,000.00	89.87	179.70	10,190.97	-4,972.06	441.34	4,991.61	0.00	0.00	0.00
15,013.63	89.87	179.70	10,191.00	-4,985.68	441.41	5,005.19	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSPP Company: ENGINEERING DESIGNS Project: PRD NM DIRECTIONAL PLANS (NAD 1983) Site: CAL-MON MDP1 35 FED Well: CAL-MON MDP1 35 FED 6H Wellbore: WB00 Design: Permitting Plan	Local Co-ordinate Reference: Well CAL-MON MDP1 35 FED 6H TVD Reference: Datum @ 3494.70ft MD Reference: Datum @ 3494.70ft North Reference: Grid Survey Calculation Method: Minimum Curvature	
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Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CAL-MON MDP1 35 - plan hits target center - Point	0.00	0.00	9,605.04	61.65	414.69	461,749.22	724,272.84	32° 16' 4 931930 N	103° 44' 29 302434
CAL-MON MDP1 35 - plan hits target center - Point	0.00	0.00	10,191.00	-4,985.68	441.41	456,702.16	724,299.56	32° 15' 14 987406 N	103° 44' 29 315359

Plan Annotations

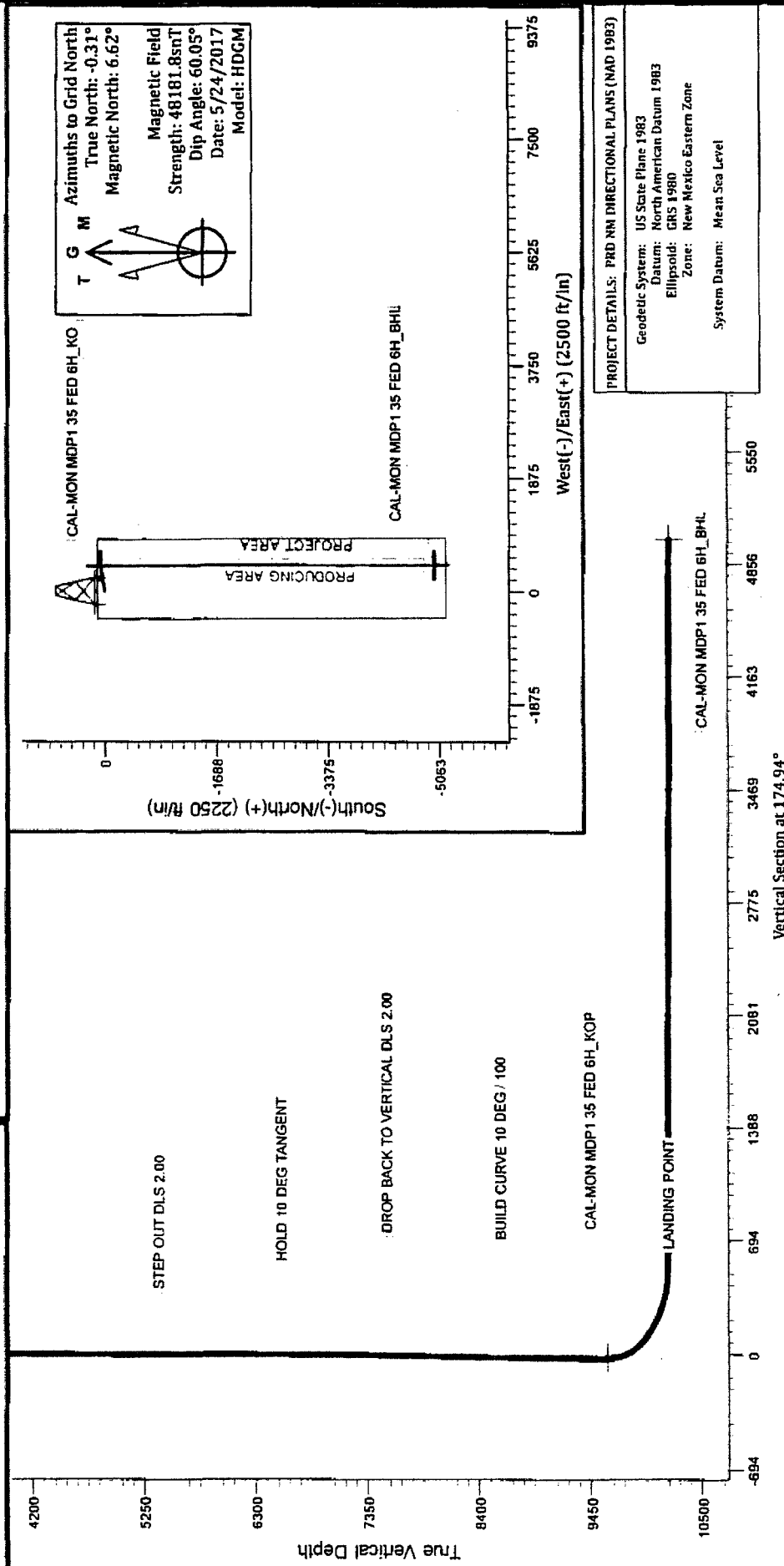
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,725.00	6,725.00	0.00	0.00	STEP OUT DLS 2.00
7,224.72	7,222.19	6.39	43.00	HOLD 10 DEG TANGENT
9,139.44	9,107.85	55.26	371.69	DROP BACK TO VERTICAL DLS 2.00
9,639.16	9,605.04	61.65	414.69	BUILD CURVE 10 DEG / 100
10,537.16	10,177.99	-509.30	417.72	LANDING POINT
15,013.63	10,191.00	-4,985.68	441.41	TD at 15013.63



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CAL-MON MDP1 35 FED
Well: CAL-MON MDP1 35 FED 6H
Wellbore: WB00
Design: Permitting Plan

WELL DETAILS: CAL-MON MDP1 35 FED 6H

+N/-S	+E/-W	Northing	Ground Level:	Longitude
0.00	0.00	461687.57	3468.20	103° 44' 34.135938 W
			Easting	Latitude
			723858.17	32° 16' 4.344480 N
			Datum @ 3494.70ft	



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	6725.00	0.00	0.00	6725.00	0.00	0.00	0.00	0.00	0.00		STEP OUT DLS 2.00
3	7224.72	9.99	81.54	7222.19	6.39	43.00	2.00	81.54	-2.58		HOLD 10 DEG TANGENT
4	9139.44	9.99	81.54	9107.85	55.26	371.69	0.00	0.00	-22.26		DROP BACK TO VERTICAL DLS 2.00
5	9639.16	0.00	179.70	9605.04	61.65	414.69	2.00	180.00	-24.84		BUILD CURVE 10 DEG / 100
6	10537.16	89.80	179.70	10177.99	-509.30	417.72	10.00	179.70	544.15		LANDING POINT
7	15013.63	89.87	179.70	10191.00	-4985.68	441.41	0.00	0.00	5005.19		TD at 15013.63

Surface Use Plan of Operations

Operator Name/Number: OXY USA Inc. – 16696
Lease Name/Number: Cal-Mon MDP1 35 Federal #6H
Pool Name/Number: Cotton Draw Bone Spring 13367
Surface Location: 110 FNL 855 FEL NENE (A) Sec 35 T23S R31E – NMNM19199
Bottom Hole Location: 180 FSL 440 FEL SESE (P) Sec 35 T23S R31E – NMNM19199

*Due to buried pipeline the surface location was moved 141' east.

1. Existing Roads

- a. A copy of the USGS "Bootleg Ridge, NM" quadrangle map is attached showing the proposed location. The well location is spotted on the map, which shows the existing road system.
- b. The well was staked by Terry J Asel, Certificate No. 15079 on 1/8/18, certified 1/16/18.
- c. Directions to Location: From the intersection of SH 128 and CR 798, go north on CR 798 for 1.0 miles. Turn left on caliche road and go west for 0.2 miles. Turn right on proposed road and go north for 142.5 feet to location.

2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run approximately 142.5' north through pasture to the southwest corner of the pad.
- b. The maximum width of the road will be 14'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. Turnouts are planned every 1000' as needed.
- e. Blade, water and repair existing caliche roads as needed.
- f. Water Bars will be incorporated every 200' during the construction of the road.

3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on attached plat.

4. Location of Existing and/or Proposed Facilities:

- a. In the event the well is found productive, the Cal-Mon 35 central tank battery would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram.
- b. All flow lines will adhere to API standards. They will consist of 2 – 4" composite flowlines operating < 75% MAWP, surface and 1 – 4" composite gas lift supply line operating <1500 psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 873.5' in length crossing Fee Land in Section 35 T23S R31E NMPM and 5128.4' in length crossing USA Land in Section 35, T23S, R31E, NMPM, Eddy County, NM and then 490.1' in length crossing Fee Land in Section 26 T23S R31E NMPM being 15' left and 15' right of the centerline survey, see attached.
- c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 576.6' in length crossing Fee Land in Section 35 T23S R31E NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.
- d. See attached for additional information on the Cal-Mon Development Surface Production Facilities.

5. Location and types of Water Supply

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads. See attached for information on the fresh water station.

6. Construction Materials:

Primary

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available.

Secondary

The secondary way of obtaining caliche to build locations and roads will be by “turning over” the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6" of topsoil is pushed off and stockpiled along the side of the location.
- b. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- c. Subsoil is removed and piled alongside the 120' X 120' within the pad site.
- d. When caliche is found, material will be stockpiled within the pad site to build the location and road.
- e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the attached plat.

7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna
- b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pickup slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

8. Ancillary Facilities: None needed.

9. Well Site Layout:

The well site layout with dimensions of the pad layout and equipment location.

V-Door – East

CL Tanks – North

Pad – 330' X 535' – Two Well Pad

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as

possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

- b. If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

11. Surface Ownership:

The surface in the NENE/4 of Section 35 T23S R31E is owned by OXY USA Inc.

The minerals are owned by the U.S. Government and administered by the BLM.

The surface is of limited use except for the grazing of livestock and the production of oil and gas.

12. Other Information:

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within one mile of the proposed well site.
- d. Cultural Resources Examination—This well is located in the Permian Basin PA. Payment made 7/20/17, Receipt No. 3896906. This well shares the same pad as the Cal-Mon MDP1 35 Federal #5H.

Pad + ¼ mile road	<u>\$1550.00</u>	\$.24/ft over ¼ mile	<u>\$ 0.00</u>	<u>\$1550.00</u>
Pipeline-up to 1 mile	<u>\$1431.00</u>	\$.27/ft over 1 mile	<u>\$ 0.00</u>	<u>\$1431.00</u>
Electric Line-up to 1 mile	<u>\$717.00</u>	\$.11/ft over 1 mile	<u>\$ 0.00</u>	<u>\$ 717.00</u>
Total	<u>\$3698.00</u>		<u>\$ 0.00</u>	<u>\$3698.00</u>

- e. Copy of this application has been mailed to SWCA Environmental Consultants, 5647 Jefferson St. NE, Albuquerque, NM 87109. No Potash leases within one mile of surface location.

13. Bond Coverage:

Bond coverage is Individual-NMB000862, Nationwide-ESB00226.

14. Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below:

Van Barton
Supt. Operations
1502 West Commerce Dr.
Carlsbad, NM 88220
Office – 575-628-4111
Cellular – 575-706-7671

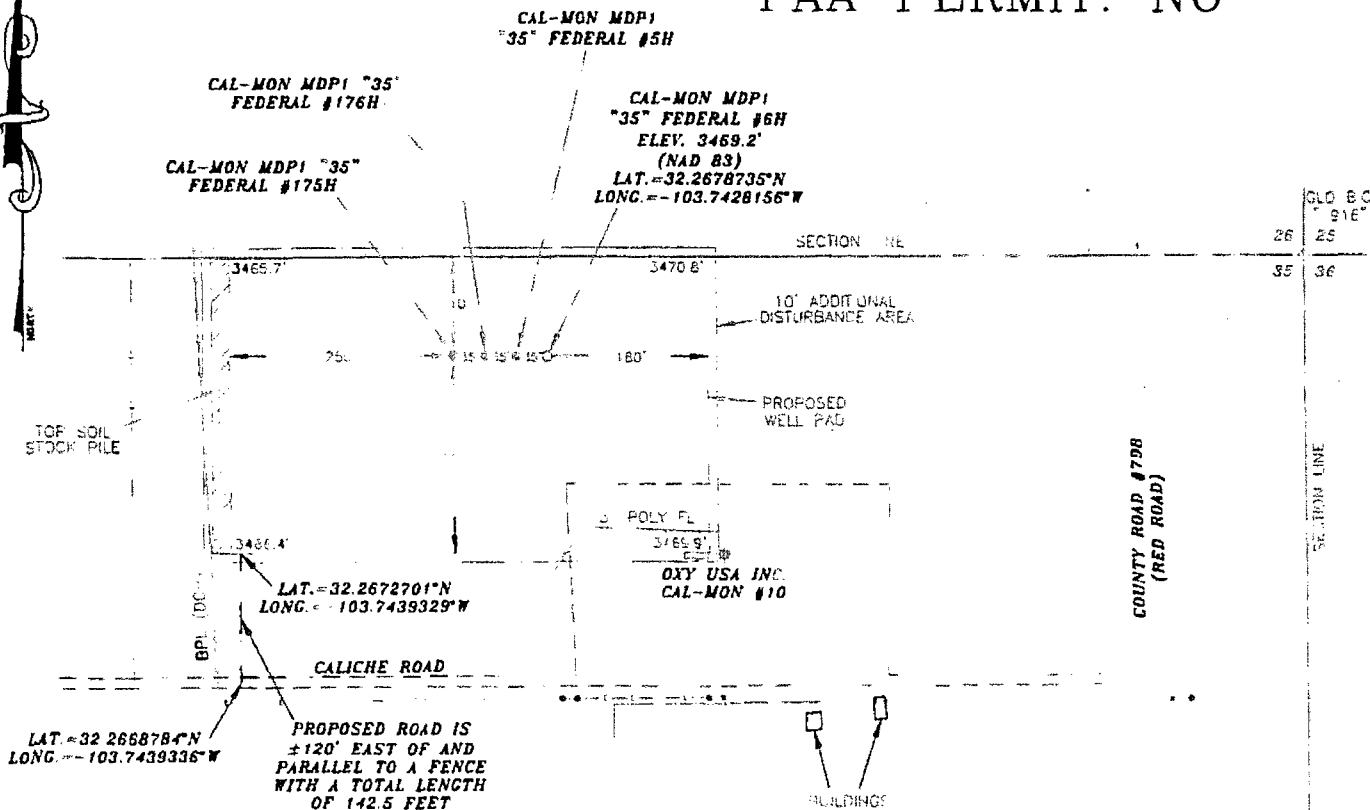
Corrie Hartman
Manager Asset
P.O. Box 4294
Houston, TX Carlsbad, NM 88220
Office – 713-215-7084
Cellular – 832-541-3190

Jim Wilson
Operation Specialist
P.O. Box 50250
Midland, TX 79710
Cellular – 575-631-2442

Cuong Q. Phan
RMT Leader
P.O. Box 4294
Houston, TX 77210
Office – 713-513-6645
Cellular – 281-832-0978

OXY USA INC. CAL-MON MDP1 "35" FEDERAL #6H SITE PLAN

FAA PERMIT: NO



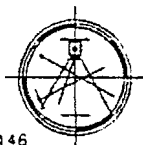
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS

Terry J. Asel 1/16/2018
Terry J. Asel, R.M. R.P.L.S. No. 15079

Asel Surveying

P.O. BOX 393 310 W. LAS VEGAS
DOBBS, NEW MEXICO 87001-0393



LEGEND

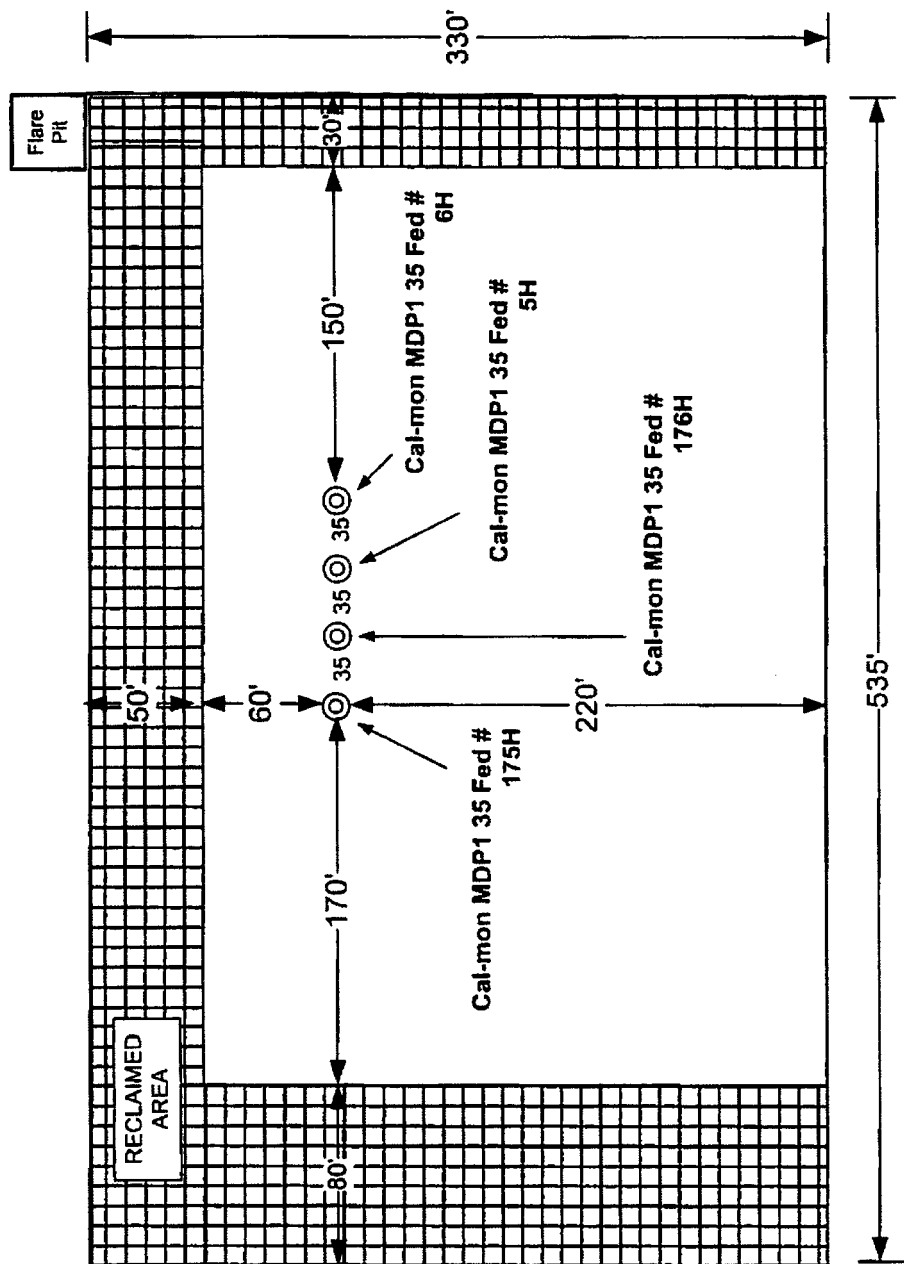
- - - DENOTES PROPOSED WELL PAD
- - - DENOTES PROPOSED ROAD
- DENOTES STOCK PILE AREA
- ★ DENOTES EXISTING WELL

200' 0 200 400' FEET
SCALE 1"=200'

OXY USA INC.

CAL-MON MDP1 "35" FEDERAL #6H LOCATED
AT 110' FNI & 555' FEL IN SECTION 35
TOWNSHIP 23 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 01/08/18	Sheet 1 of 1 Sheets
W.O. Number: 161101WL-b (Rev A)	Drawn By: KA Rev. A
Date: 01/10/18	161101WL-b Scale: 1"=200'



NORTH

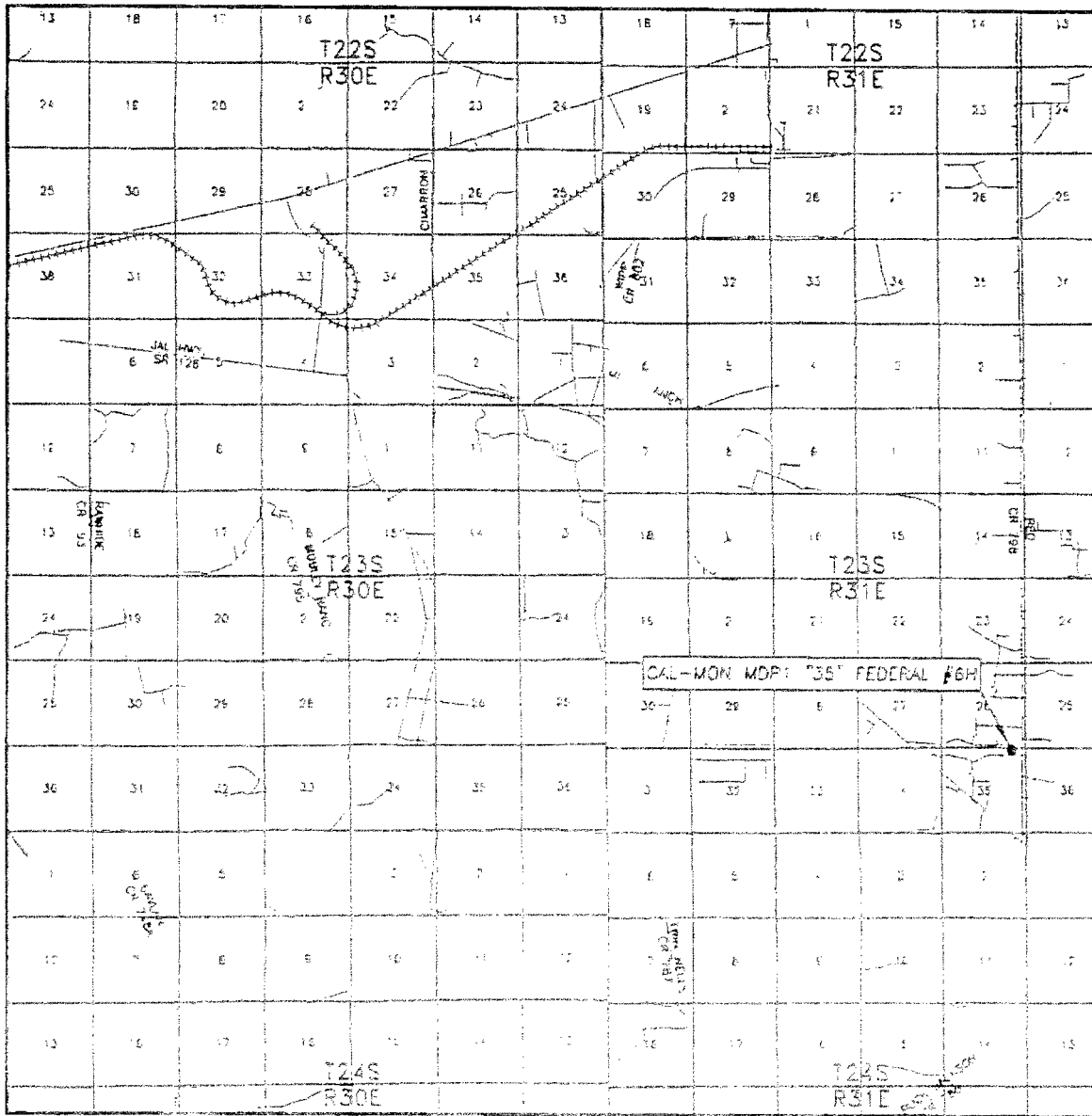
8' Diameter x 8' Deep Tinhorn
Cellar

FLEX 3 RIG DIAGRAM
Cal-mon MDP1 35 Fed # 5H, 6H,
175H, 176H
EDDY COUNTY, NEW MEXICO

ENGINEERING RECORD

REVISION BLOCK		ENGINEERING RECORD			
NO.	DATE	DESCRIPTION		BY	
		BY	CHK	APP	DATE

VICINITY MAP



SEC 35 TWP 23-S RGE 31-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 110' FNL & 855' FEL
 ELEVATION 3469.2'
 OPERATOR OXY USA INC.

ALL 1" 2 MILES

Asel Surveying

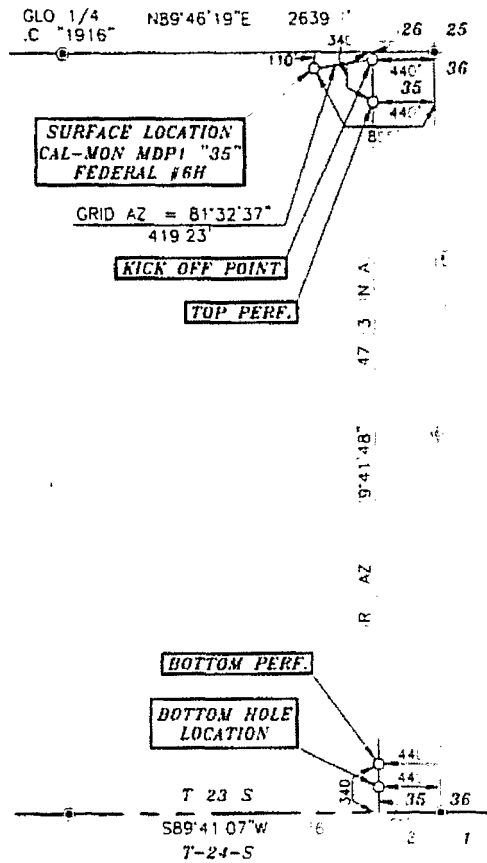
P.O. BOX 393 21 W TAYLOR
 MORENO, NEW MEXICO 875 353-9146



LEASE CAL-MON MDP: 35 FEDERAL #6H

DIRECTIONS BEGINNING AT THE INTERSECTION OF HWY #128 AND COUNTY ROAD #798 (RE' R 1A1).
 GO NORTH ON COUNTY ROAD #798 FOR 1.0 MILES, TURN LEFT ON CALICHE ROAD AND GO WEST
 FOR 0.2 MILES, TURN RIGHT ON PROPOSED ROAD AND GO NORTH FOR 142.5 FEET TO BE AT ON

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY
NEW MEXICO



35
Feet
North American Datum of 1983

GO DIRECTLY
TO THE INTERSECTION
OF T23S AND R31E
(ROAD), GO NORTH
4798 FEET TO
LOCAL ROAD AND
TURN RIGHT
AND GO NORTH
TO LOCATION



SURVEYORS CERTIFICATE

I, TERRY J. ASEEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079 DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS

Terry J. Aseel 1/16/2018
Terry J. Aseel, A.M.R.P.L.S. No. 15079

Aseel Surveying

BOX 393 W
NEW MEXICO 87006-0393



LEGEND

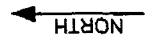
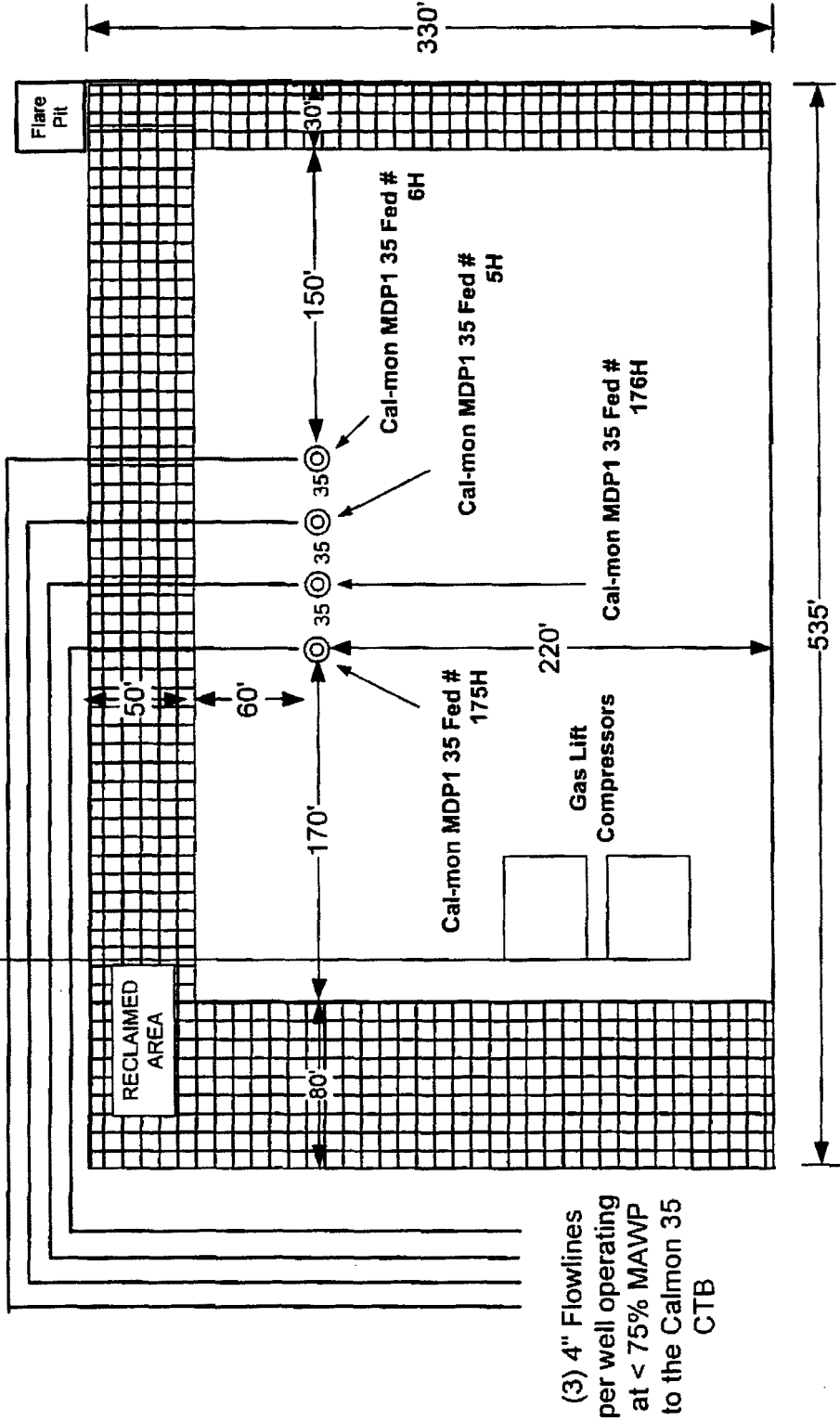
1" = 100'

OXY USA INC

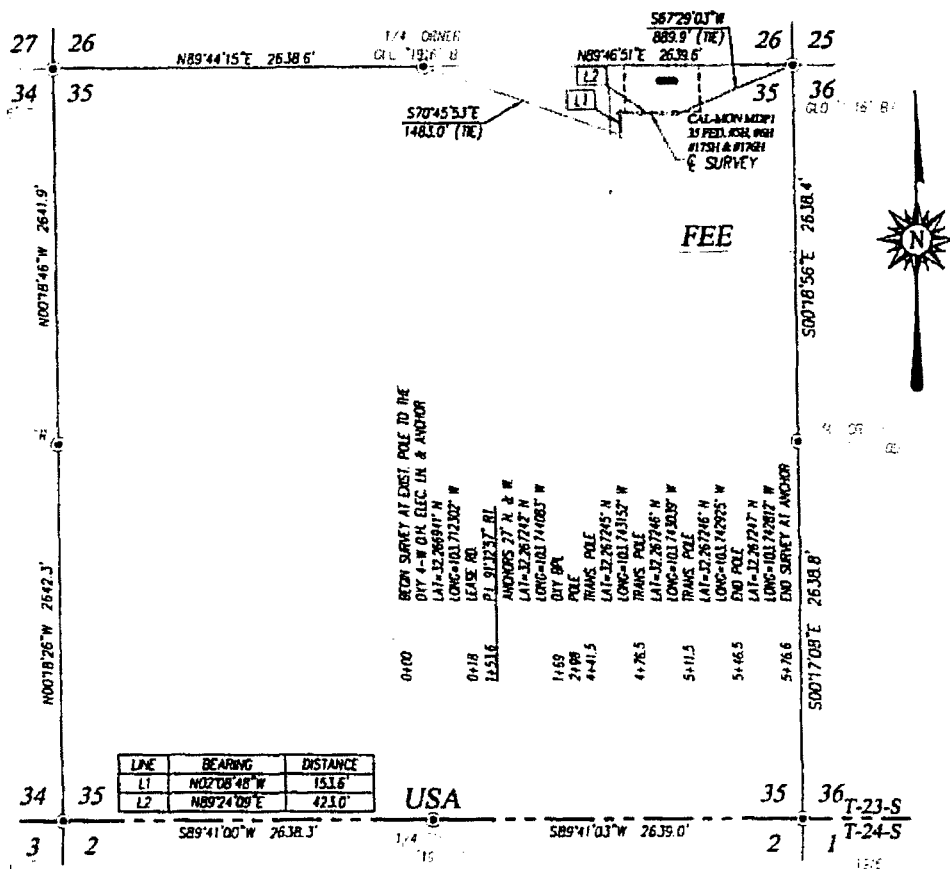
100' WIDE "FEDERAL" ROAD, CAL-MON MDPI "35", TOWNSHIP 23 SOUTH, RANGE 31 EAST, NEW MEXICO

Survey Date: 01/05/18	Sheet 1 of 1 Sheets
W.O. Number: 18-00000-0000-0000	Drawn By: J.A. Rev: 0
Date: 01/16/18	Scale: 1" = 100'

(1) 6" Buried Gas Lift Supply
Lines from 8" Gas lift header



REVISION BLOCK		ENGINEERING RECORD				FACILITY LAYOUT DIAGRAM	
NO	DATE	DESCRIPTION	BY	CHK	APP	Cal-mon MDP1 35 Fed # 5H, 6H, 175H, 176H	EDDY COUNTY, NEW MEXICO



DESCRIPTION

SURVEY OF AN ELECTRIC LINE CROSSING SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, WHICH LIES 570°45'53"E 1483.0 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION; THEN N02°08'48" W 153.6 FEET; THEN N89°24'09" E 423.0 FEET TO A POINT IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION, WHICH LIES 567°29'03" W 889.9 FEET FROM THE NORTHEAST CORNER OF SAID SECTION.

TOTAL LENGTH EQUALS 576.6 FEET OR 34.94 RODS.

NOTE

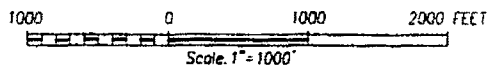
- 1) BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
 - 2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM 1983 (NAD83).
- I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

DATE: 01/19/2018

LEGEND

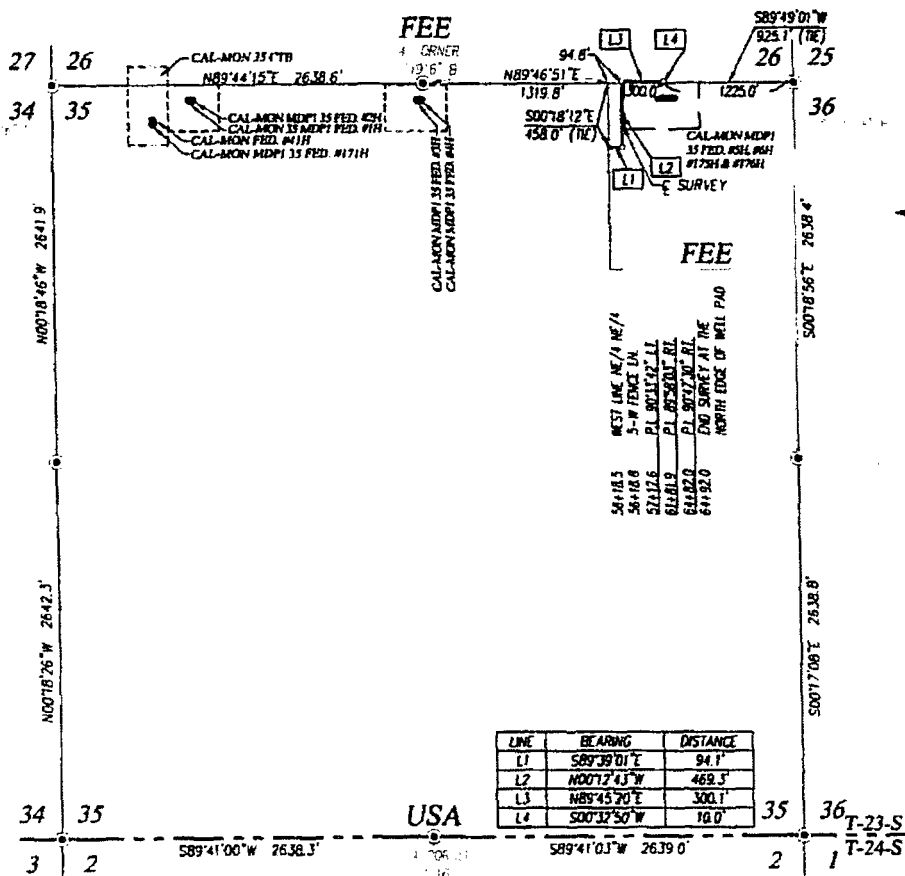
⊙ DENOTES FOUND CORNER AS NOTED



OXY U.S.A. INC.

SURVEY FOR AN ELECTRIC LINE TO THE
CAL-MON MDPI 35 FED. #5H, #6H, #175H & #176H
WELLS CROSSING SECTION 35,
TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO

Survey Date: 1/09/18 CAD Date: 1/18/18 Drawn By: ACK
W.O. No: 18110014 Rev. Ref. W.O.: 17110083 Sheet 1 of 1



DESCRIPTION

SURVEY FOR A FLOW LINE CROSSING SECTION 26 & 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS.

BEGINNING AT A POINT ON THE WEST LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, WHICH LIES N89°46'51"E 1319.8 FEET AND S00°18'12"E 458.0 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION; THEN S89°39'01"E 94.1 FEET, THEN N00°12'43"W 469.3 FEET, THEN N89°45'20"E 300.1 FEET, THEN S00°32'50"W 10.0 FEET TO A POINT IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER, WHICH LIES S89°49'01"E 925.1 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 26.

TOTAL LENGTH EQUALS 873.5 FEET OR 52.94 RODS.

NOTE

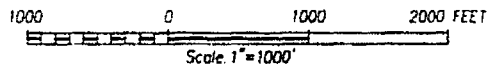
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAN AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH THIS IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON, *[Signature]*
DATE: 01/19/2016

LEGEND

• DENOTES FOUND CORNER AS NOTED

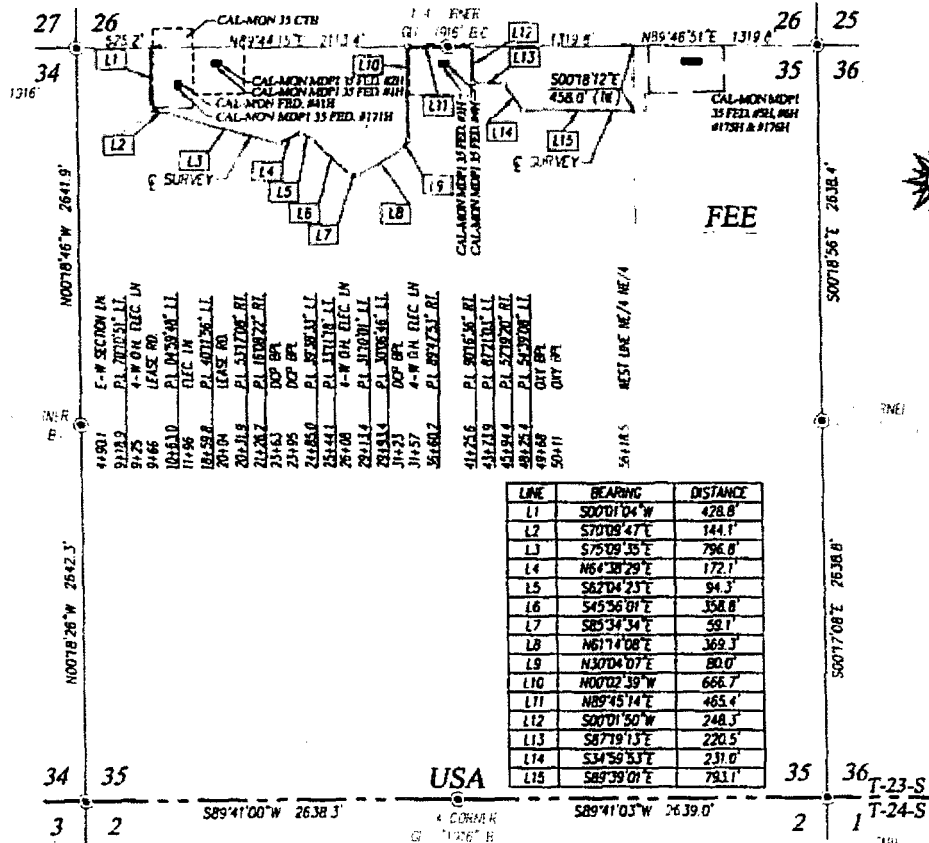


OXY U.S.A. INC.

SURVEY FOR A FLOW LINE TO THE CAL-MON MDPI
35 FEDERAL #5H, #6H #175H & #176H CROSSING
SECTIONS 26 & 35, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO

Survey Date: 1/09/18 CAD Date: 1/16/18 Drawn By: ACK
W.O. No.: 18110013 Rev. Rel. W.O.: 17110082 Sheet 1 of 1

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 392-3117 www.jwsc.biz
TBPLS# 100221000



DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 5128.4 FEET OR 0.971 MILES IN LENGTH CROSSING USA LAND IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

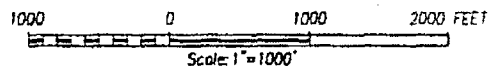
I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAN AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

DATE: 01/19/2016

LEGEND

• DENOTES FOUND CORNER AS NOTED



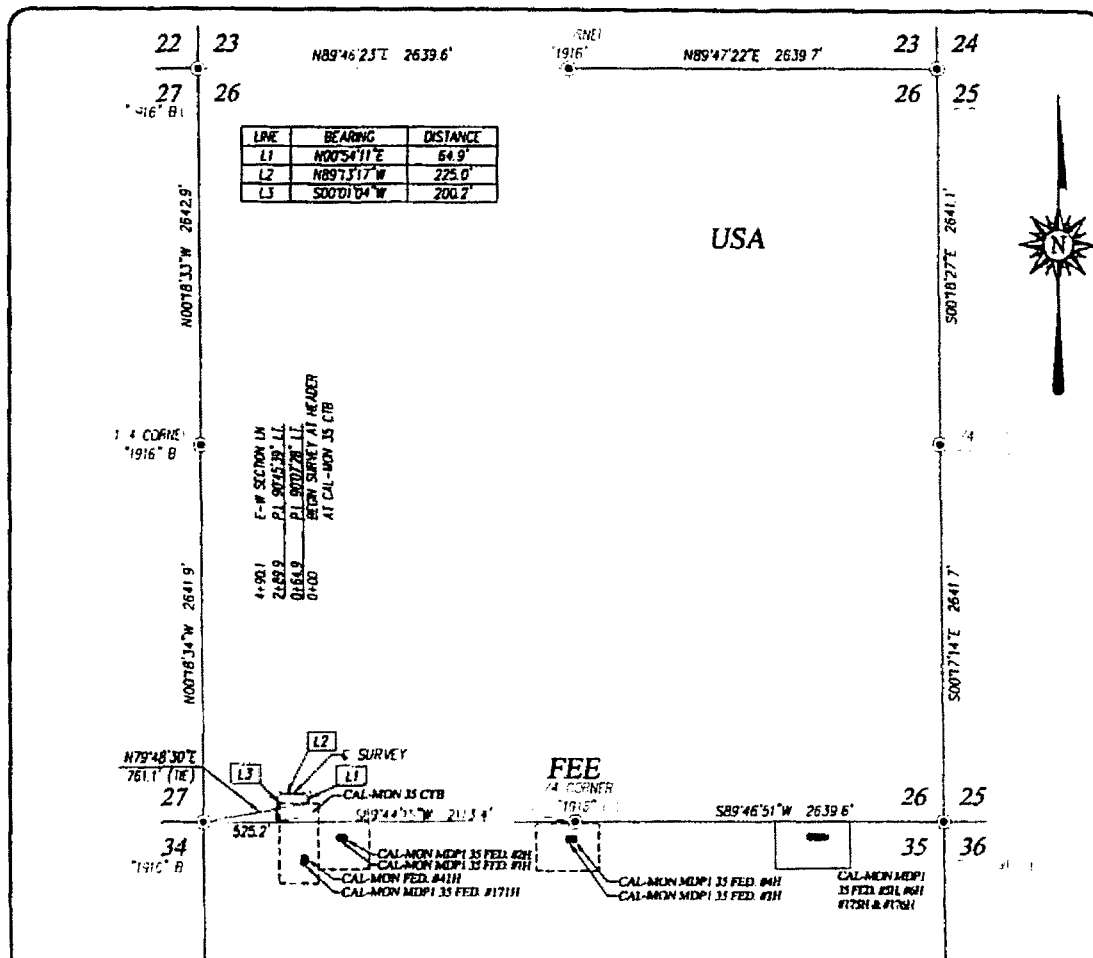
OXY U.S.A. INC.

SURVEY FOR A FLOW LINE TO THE CAL-MON MDPI 35 FEDERAL #5H, #6H #175H & #176H CROSSING SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 1/09/18 CAD Date: 1/18/18 Drawn By: ACK
W.O. No. 18110013 Rev. Rel. W.O.: 17110082 Sheet 1 of 1



PROVIDING SURVEYING SERVICES SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsurvey.com
TBPLS# 10021000



DESCRIPTION

SURVEY FOR A FLOW LINE CROSSING SECTION 26, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHWEST QUARTER OF SECTION 26, WHICH LIES N79°48'30"E 761.1 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION, THEN N00°54'11"E 64.9 FEET; THEN N89°13'17"W 225.0 FEET, THEN S00°01'04"W 200.2 FEET TO A POINT ON THE SOUTH LINE OF SAID SECTION, WHICH LIES N89°44'15"E 525.2 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION.

TOTAL LENGTH EQUALS 490.1 FEET OR 29.70 RODS

NOTE

BEARINGS SHOWN HEREON ARE MERIDIAN AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THE SURVEY PLAN AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT THIS IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

DATE

01/19/2018

LEGEND

• DENOTES FOUND CORNER AS NOTED



OXY U.S.A. INC.

SURVEY FOR A FLOW LINE TO THE CAL-MON MDP1 35 FEDERAL #5H, #6H #175H & #176H CROSSING SECTION 26, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 1/09/18

CAD Date: 1/18/18

Drawn By: ACK

W.O. No.: 18110013

Rev:

Rel. W.O.: 17110082

Sheet 1 of 1

OXY U.S.A. INC.
NEW MEXICO STAKING FORM

Date Staked: 1-8-18

Lease / Well Name: CAL-Mon MDPL 35 Fed # 6H

Legal Description: 110' FNL 855' FEL Sec 35 T23S R31E

Latitude: 32° 16' 04.34" NAD 83

Longitude: -103° 44' 34.14" NAD 83

X: 723858.17 NAD 83

Y: 461687.57 NAD 83

Elevation: 3469.2 NAD 83

Move information: _____

County: Eddy

Surface Owner: Oxy

Nearest Residence: _____

Nearest Water Well: _____

V Door: EAST

Top soil: WEST

Road Description: _____

New Road: _____

Upgrade Existing Road: _____

Interim Reclamation: 30' EAST 50' NORTH

Source of Caliche: _____

Onsite Attendees: _____

DATE _____

PERFORMANCE DATA

TMK UP DQX
Technical Data Sheet

5,500 in

20.00 lbs/ft

P-110

Tubular Parameters

Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P-110		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	729,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,600	psi
Nominal ID	4.778	in	Collapse Pressure	11,100	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in ²			

Connection Parameters

Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.122	in
Critical Section Area	5.828	
Tension Efficiency	100.0	
Compression Efficiency	100.0	
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi

Make-Up Torques

Min. Make-Up Torque	11,600	ft-lbs
Opt. Make-Up Torque	12,900	ft-lbs
Max. Make-Up Torque	4,100	ft-lbs
Yield Torque	20,600	ft-lb

Printed on July-29-2014



The fact that the defendant's wife, Mrs. [redacted] Jones, is a member of the [redacted] Church, and that the defendant is a member of the [redacted] Church, is a fact which is not in dispute. The fact that the defendant is a member of the [redacted] Church is a fact which is not in dispute. The fact that the defendant is a member of the [redacted] Church is a fact which is not in dispute.



IPSCO

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Oxy USA Incorporated
LEASE NO.:	NMNM19199
WELL NAME & NO.:	Cal-Mon MDP1 35 Federal 6H
SURFACE HOLE FOOTAGE:	110'/N & 855'/E
BOTTOM HOLE FOOTAGE:	180'/S & 440'/E
LOCATION:	Section 35, T.23 S., R.31 E., NMPM
COUNTY:	Eddy

Potash	☒ None	☒ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

All previous COAs still apply except for the following:

A. CASING

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

1. The minimum required fill of cement behind the 9 5/8 inch second intermediate casing is:

Option 1:

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

Option 2:

Operator has proposed DV tool and will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If operator circulates cement on the first stage, operator is approved to inflate the ACP and run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will inflate ACP and proceed with the second stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash**

MHH 02122018

GENERAL REQUIREMENTS

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.