District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-40248	96830	Artesia; GL-Yeso

Property Code	Property Name	Well Number
309600	McHAM "34" STATE	2

OGRID No.	Operator Name	Elevation
157984	Occidental Permian LTD	3670.2'

Surface Location

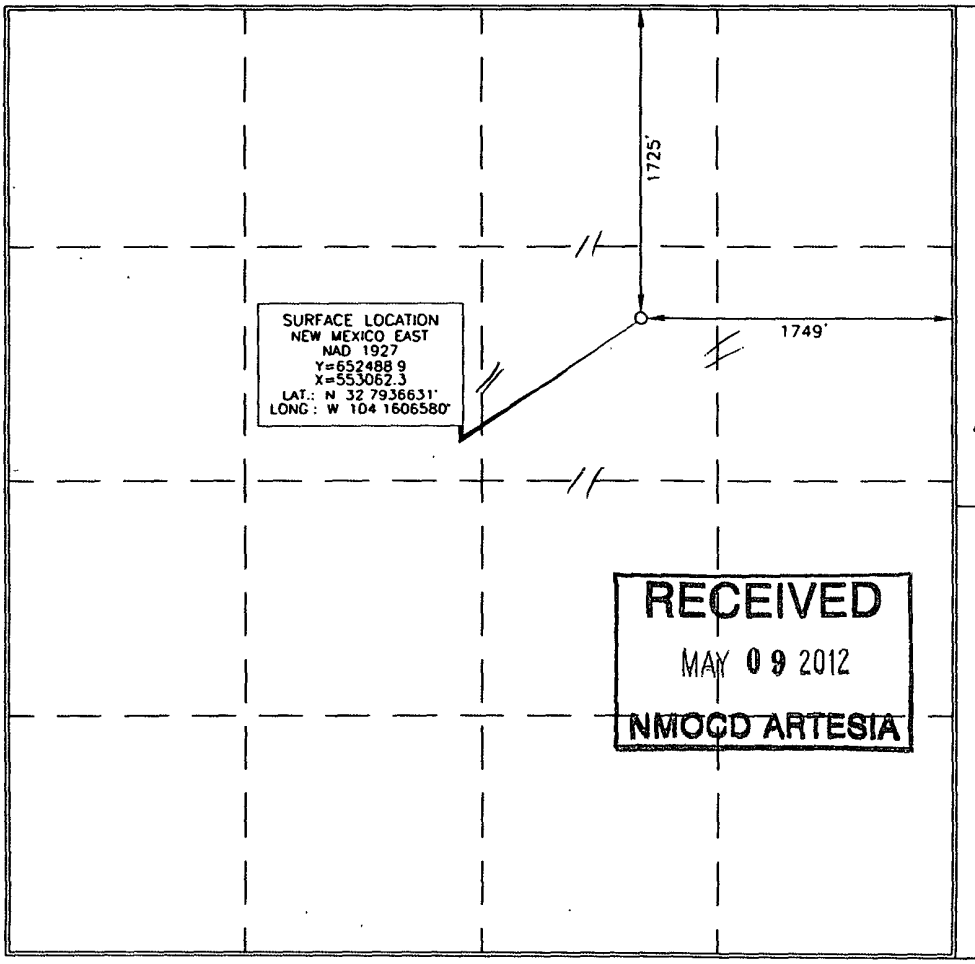
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	34	17 SOUTH	28 EAST, N.M.P.M.		1725'	NORTH	1749'	EAST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



RECEIVED
MAY 09 2012
NMOCD ARTESIA

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.

Signature 5/3/12 Date

Jennifer Duarte
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

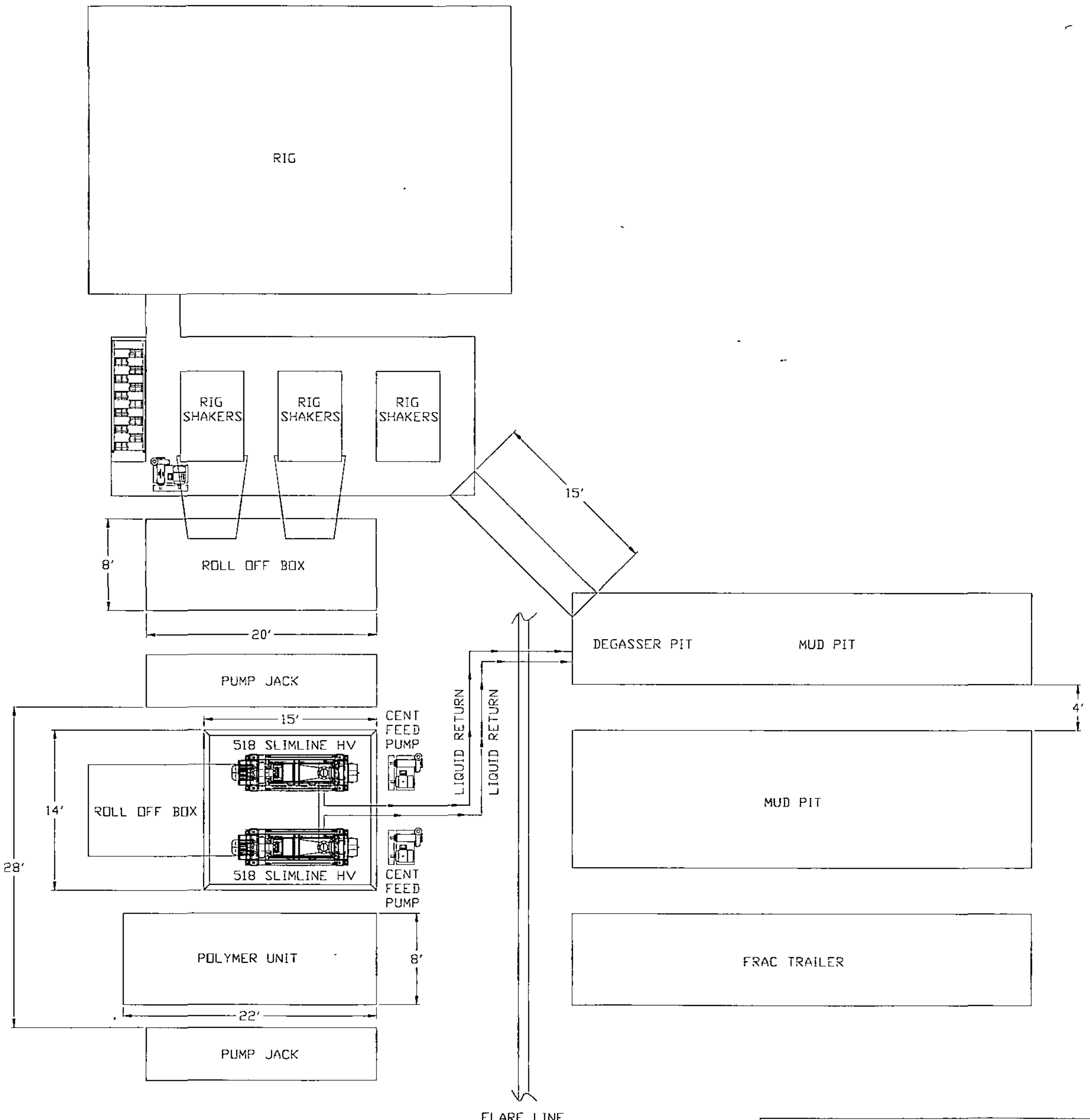
15079
JULY 22, 2011
Date of Survey

Signature and Seal of Professional Surveyor

1/11/2012

Certificate Number 15079

WO# 110722WL-1 (Rev. B) (KA)



REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
MILLIMETERS ARE IN BRACKETS
DO NOT SCALE PRINTS
REMOVE BURRS AND SHARP EDGES
SURFACE ROUGHNESS 125 MICRO INCHES RMS
TOLERANCES PER ANSI Y14.5M

TOLERANCES ON:
XXX +/- .005 FRACTIONS +/- 1/32
XX +/- .015 ANG +/- 1/2 DEG
X +/- .030 CONCEN .005 DIA

CONFIDENTIAL

ACKNOWLEDGED: ________ DATE ________

MI SWACO

5950 NORTH COURSE DRIVE HOUSTON TEXAS 77072

H&P 345/OXY SOLIDS CONTROL AND DEWATERING PROPOSAL GA

SIZE	PLOT DATE	DWG NO	REV
D	10-12-2011	NALP-029-DWG-001	—

SCALE NTS | DRAWN BY T ANDERSON | SHEET 1 OF 1

APD DATA – DRILLING PLAN –

OPERATOR NAME / NUMBER: OXY USA Inc 16696

LEASE NAME / NUMBER: McHam 34 State # 2 **Federal Lease No:**

STATE: NM **COUNTY:** Eddy

SURFACE LOCATION: 1725' FNL & 1749' FEL, Sec 34, T17S, R28E

C-102 PLAT APPROX GR ELEV: 3670.2'

EST KB ELEV: 3684.2' (14' KB)

1. **GEOLOGIC NAME OF SURFACE FORMATION**
   a. Permian

2. **ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS**

Formation	TV Depth Top	Expected Fluids
Rustler	352	
Tansil	498	None
Yates	625	None
Seven Rivers	755	
Queen	1438	
San Andres	2187	
Glorietta	3571	Oil
Tubb – Base Yeso	5069	Oil
TD	5200	TD

A. 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.

GREATEST PROJECTED TD 5200' MD / 5200' TVD **OBJECTIVE:** Yeso

3. **CASING PROGRAM**

Surface Casing: 9.625" casing set at ± 400' MD/ 400' TVD in a 12.25" hole filled with 8.40 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-400'	400'	36	J-55	ST&C	2020	3520	394	8.92	4.77	14.99	26.13	27.36

Production Casing: 5.5" casing set at ± 5200'MD / 5200'TVD in a 7 7/8" hole filled with 10.00 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 5200'	5200'	17	L-80	LT&C	6280	7740	348	4.99	4.77	1.85	2.28	3.94

Collapse and burst loads calculated using Stress Check with actual anticipated loads.

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Surface (TOC: 0' –400')							
Lead: 0' – 400' (150% Excess)	250	400'	Premium Plus Cement, with 2% Calcium	6.39	14.80	1.35	2500 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Production (TOC: 0' 5200'							
Lead: 0' - 3000 (150 % Excess)	940	3000	Halliburton Light Premium Plus with 5% Salt, 3 lb/sx Kol-Seal and 0.125 lb/sx Poly_E_Flake	9.571	12.9	1.87	530 psi
Lead: 3000' - 5200 150 % Excess)	1140	2200'	50/50 Poz Premium Plus with 3% Salt, 0.4% Halad ®-322, 0.125 lb/sx Poly E_Flake	5.638	14.5	1.24	980 psi

5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 400' None.

Production: 0 - 5200' the minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi .

a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 9 5/8" surface casing and the 9 5/8" SOW x 11" 3K conventional wellhead;.
b. The BOP and ancillary BOPE will be tested by a third party upon installation to the 9 5/8" 36# J-55 surface casing. All equipment will be tested to 250/3000 psi for 10 minutes.
c. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3 " choke line having a 3000 psi WP rating.
d. See attached BOP & Choke manifold diagrams.

6. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 400'	8.4 – 8.9	32 – 34	NC	Fresh Water /Spud Mud
400' – TD	9.8 – 10.0	28 – 29	NC	Brine Water

Remarks: 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.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

a. A Kelly cock will be in the drill string at all times.

b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

8. LOGGING / CORING AND TESTING PROGRAM:

A. Mud Logger: None.

B. DST's: None.

C. Open Hole Logs as follows: Triple combo for production section.

9. POTENTIAL HAZARDS:

A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.

B. The bottomhole pressure is anticipated to be 2500 psi

C. No abnormal temperatures or pressures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after the NMOCD has approved the APD. Anticipated spud date will be as soon as possible after NMOCD approval and as soon as a rig will be available. Move in operations and drilling is expected to take 15 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

11. COMPANY PERSONNEL:

Name	Title	Office Phone
Luis Tarazona	Drilling Engineer	713-366-5771
Victor Guerra	Drilling Engineer Supervisor	713-215-7256
Sergio Abauat	Drilling Superintendent	713-366-5689
Douglas Chester	Drilling Manager	713-366-5194