

DATE IN <u>10.31.11</u>	SUSPENSE	ENGINEER <u>DKB</u>	LOGGED IN <u>10.31.11</u>	TYPE <u>NSL</u>	APP NO. <u>1130457779</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



Mack EN
13837

Brook Fed. #1

ADMINISTRATIVE APPLICATION CHECKLIST

30-025-40244

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

6502

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication

☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

201 OCT 31 P 3:32

RECEIVED OCT

Lea

[21] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

A - 30-175-32E

[31] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[41] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Deana Weaver

Print or Type Name

Deana Weaver

Signature

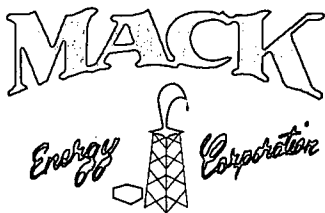
Production Clerk

Title

10.28.11

Date

dweaver@mec.com
e-mail Address



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

October 28, 2011

Oil Conservation Division
Attn: Will Jones
1220 South St. Francis Dr.
Santa Fe, NM 87505

Dear Mr. Jones:

Mack Energy respectfully requests an administrative approval without notice and hearing of the following unorthodox well location.

Because of our desire to produce this well in a timely manner, we also request your approval be expedited. The well location and legal description is as follows:

Brook Federal #1
SHL: 635 FNL & 10 FEL
BHL: 355.5 FNL & 338 FEL
Sec. 30, T17S, R32E
Lea County, New Mexico

The well will be completed in the Yeso formation in the Maljamar; Yeso Pool.
Attached to this application are the following exhibits.

- A.) Well location and acreage dedication plat (form C-102) (Exhibit A).
- B.) A plat showing the proposed unorthodox locations, the respective proration units, and the offsetting proration units (Exhibit B).
- C.) Final Directional Survey showing the well path and BHL. (Exhibit C)

This well is located in the NE/4 of the NE/4 of Sec. 30 T17S R32E. The well was attempted to be drilled as a directional well with an orthodox BHL of 355.5 FNL & 338 FEL. However final survey revealed a portion of the producing interval is not within the orthodox location boundary therefore making it unorthodox, within the Yeso formation. Maximum non-standard distances within the Yeso formation are 12' North and 23' East of the desired 330' hard line. The well was TD at 7062' and pipe was run making the well an unorthodox location. The well is encroaching the SE/4 of the SE/4 of Sec 19 T17S R32E, SW/4 of the SW/ 4 Sec. 20 T17S R32E and NW/4 of the NW/4 Sec. 29 T17S R32E. Offset operators have been notified and a list is provided.

Thank you for your assistance in this matter. If you have any questions, please feel free to call.

Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk
DW
Enclosures

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40244	Pool Code 44500	Pool Name Maljamar-Yeso
Property Code 38762	Property Name BROOK FEDERAL	Well Number 1
GRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3928'

Surface Location

U/L or Int No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	17-S	32-E		635	NORTH	10	EAST	LEA

Bottom Hole Location If Different From Surface

U/L or Int No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	17-S	32-E		355.5	NORTH	338	EAST	LEA
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

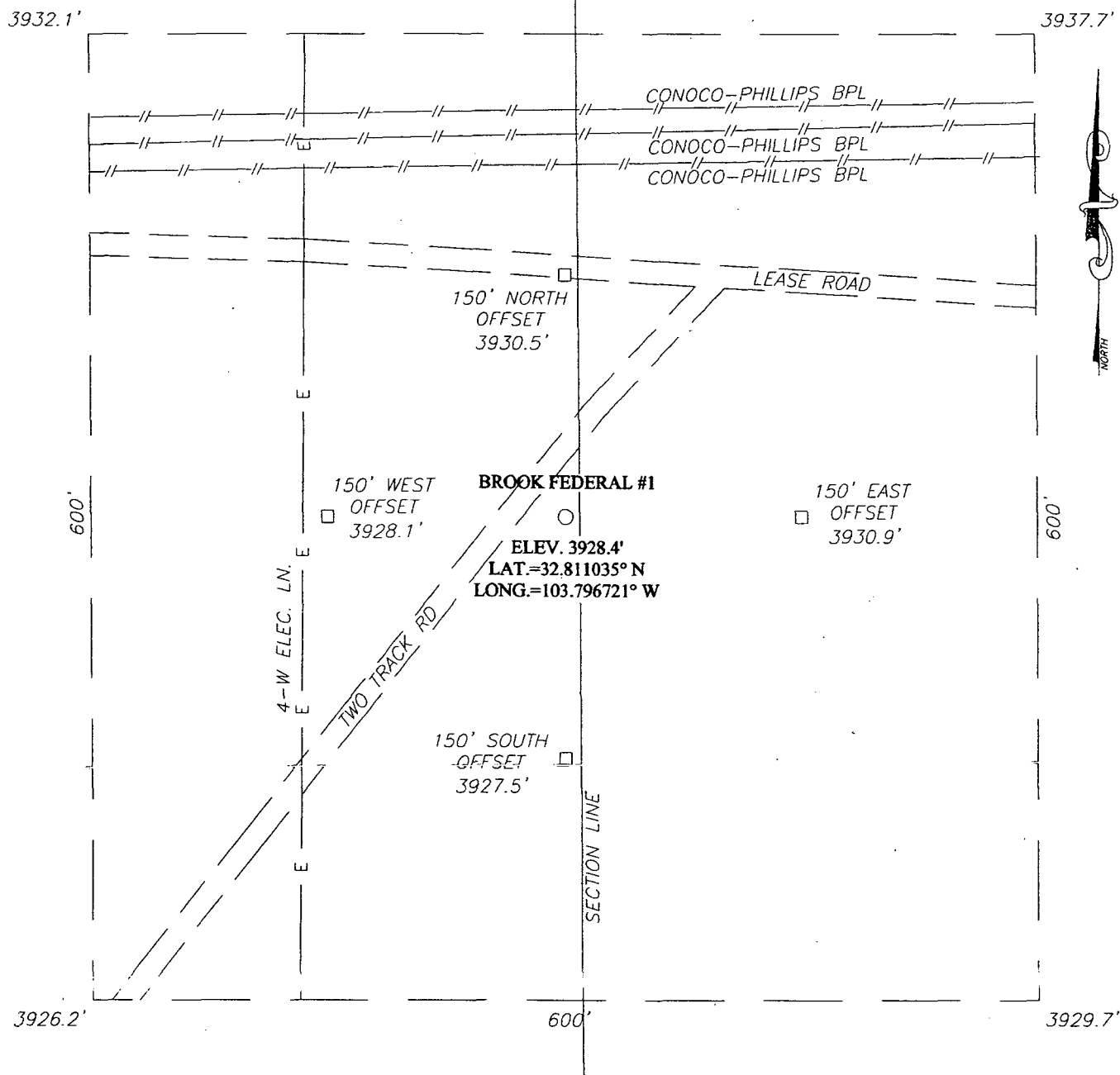
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N:659813.9 E:663545.9 N:659818.9 E:664873.6 N:658494.0 E:663553.4 N:658498.8 E:664880.9 GRID AZ. -313°21'31" HORZ. DIST. -442.5' B.H.O. S.L. SEE DETAIL 3932.1' 3937.7' 3926.2' 3929.7' SECTION 30 SECTION 29 DETAIL 600' 600' GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=659184.0 N X=664867.1 E LAT.=32.811035° N LONG.=103.796721° W BOTTOM HOLE LOCATION Y=659487.7 N X=664545.5 E	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Deana Weaver</u> 10/28/11 Signature Date Deana Weaver 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. NOVEMBER 12 2010 Date Surveyed Signature & Seal of Professional Surveyor 3239 RONALD J. EIDSON Certificate No. GARY EIDSON 12041 RONALD J. EIDSON 3239
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SECTION 30, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,

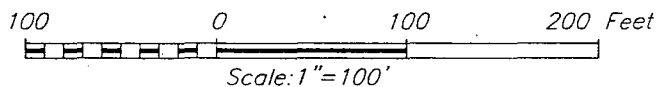
LEA COUNTY,

NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. #126 (MALJAMAR RD) AND ST. HWY. #529, GO WEST-NORTHWEST ON ST. HWY. #529 APPROX. 2.6 MILES. GO NORTH APPROX. 0.85 MILES. GO EAST APPROX. 0.4 MILES. THE LOCATION STAKE IS APPROX. 160 FEET SOUTH.



MACK ENERGY CORPORATION

BROOK FEDERAL #1 WELL
LOCATED 635 FEET FROM THE NORTH LINE
AND 10 FEET FROM THE EAST LINE OF SECTION 30,
TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 11/17/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.1631	Dr By: LA
Date: 11/29/10	10111631
	Scale: 1"=100'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

SCANNED

Brook Federal #1 Notification List

Concho Operating, LLC
550 West Texas Ave, Suite 100
Midland, TX 79701

Oxy USA Inc.
5 Greenway Plaza, Suite 110
Houston, TX 77046

Bureau of Land Management
620 E. Green Street
Carlsbad, NM 88220-6292



Mack Energy

Lea County

Brook Federal

#1

OH

Design: OH

Pathfinder X & Y Report

28 October, 2011

PATHFINDER®

A Schlumberger Company



Smith International, Inc.
Pathfinder X & Y Report



A Schlumberger Company

Company:	Mack Energy	Local Co-ordinate Reference:	Well #1
Project:	Lea County	TVD Reference:	KB = 17.5 @ 3945.5usft (Silver Oak #2)
Site:	Brook Federal	MD Reference:	KB = 17.5 @ 3945.5usft (Silver Oak #2)
Well:	#1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site:	Brook Federal	Northing:	6,591,840.000 usft	Latitude:	49° 5' 40.971 N
Site Position:	Map	Easting:	664,867.000 usft	Longitude:	103° 38' 42.805 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.52 °

Well	#1	Well Position	+N/-S	0.0 usft	Northing:	659,184.000 usft	Latitude:	32° 48' 39.727 N
		+E/-W	0.0 usft		Easting:	664,867.100 usft	Longitude:	103° 47' 48.196 W
Position Uncertainty:	0.0 usft	Wellhead Elevation:		usft			Ground Level:	3,928.0 usft

Wellbore	OH	Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
			IGRP200510	10/13/2011	7.68	60.71	48,945

Design	OH	Audit Notes:	Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD)	(usft)	+N/-S	(usft)	+E/-W	(usft)	Direction (°)
		0.0		0.0		0.0		313.36

Survey Program	Date	10/28/2011	From	To	Survey (Wellbore)	Tool Name	Description
			(usft)	(usft)			
			808.0	7,062.0	mwd #1 (OH)	MWD	MWD - Standard



Smith International, Inc.
Pathfinder X & Y Report



A Schlumberger Company

Company: Mack Energy
Project: Lea County
Site: Brook Federal
Well: #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1
KB = 17.5 @ 3945.5ustf (Silver Oak #2)
KB = 17.5 @ 3945.5ustf (Silver Oak #2)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	TVDSS (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	Dleg (°/100ustf)	Northing (ustf)	Easting (ustf)
	721.0	0.20	264.70	721.0	-3,224.5	-0.5	0.8	-0.9	0.00	659,183.47	664,867.86
	808.0	0.09	217.99	808.0	-3,137.5	-0.6	0.6	-0.8	0.18	659,183.40	664,867.67
	903.0	0.18	274.79	903.0	-3,042.5	-0.6	0.4	-0.7	0.16	659,183.36	664,867.47
	998.0	0.18	204.67	998.0	-2,947.5	-0.8	0.2	-0.6	0.22	659,183.23	664,867.26
	1,093.0	0.44	179.45	1,093.0	-2,862.5	-1.3	0.1	-0.9	0.30	659,182.73	664,867.20
	1,188.0	0.52	150.61	1,188.0	-2,757.5	-2.0	0.3	-1.6	0.26	659,181.99	664,867.42
	1,284.0	0.88	144.06	1,284.0	-2,661.5	-3.0	1.0	-2.7	0.38	659,181.02	664,868.06
	1,379.0	0.70	105.65	1,379.0	-2,566.5	-3.7	2.0	-4.0	0.58	659,180.27	664,869.05
	1,474.0	0.88	110.26	1,474.0	-2,471.5	-4.1	3.2	-5.2	0.20	659,179.86	664,870.29
	1,569.0	0.62	62.51	1,569.0	-2,376.5	-4.2	4.3	-6.0	0.69	659,179.84	664,871.43
	1,664.0	1.14	60.35	1,663.9	-2,281.6	-3.5	5.6	-6.4	0.55	659,180.55	664,872.71
	1,760.0	1.14	57.16	1,759.9	-2,185.6	-2.5	7.2	-7.0	0.07	659,181.54	664,874.34
	1,855.0	1.14	98.80	1,854.9	-2,090.6	-2.1	9.0	-8.0	0.85	659,181.91	664,876.07
	1,950.0	0.18	60.35	1,949.9	-1,995.6	-2.2	10.0	-8.8	1.06	659,181.84	664,877.14
	2,046.0	0.35	128.53	2,045.9	-1,899.6	-2.3	10.4	-9.1	0.34	659,181.73	664,877.50
	2,141.0	0.18	90.64	2,140.9	-1,804.6	-2.5	10.8	-9.5	0.25	659,181.55	664,877.87
	2,236.0	2.02	316.61	2,235.9	-1,709.6	-1.2	9.8	-8.0	2.26	659,182.76	664,876.87
	2,331.0	4.04	320.92	2,330.7	-1,614.8	2.6	6.5	-3.0	2.14	659,186.58	664,873.61
	2,426.0	5.63	314.69	2,425.4	-1,520.1	8.5	1.1	5.0	1.76	659,192.45	664,868.19
	2,522.0	7.56	313.06	2,520.8	-1,424.7	16.1	-6.9	16.0	2.02	659,200.08	664,860.23
	2,617.0	9.58	314.31	2,614.7	-1,330.8	25.9	-17.1	30.2	2.14	659,209.86	664,850.00
	2,713.0	11.34	314.54	2,709.1	-1,236.4	38.1	-29.5	47.6	1.83	659,222.07	664,837.56
	2,808.0	12.93	314.08	2,802.0	-1,143.5	52.0	-43.8	67.6	1.68	659,236.01	664,823.26
	2,903.0	13.19	315.00	2,894.5	-1,051.0	67.1	-59.1	89.0	0.35	659,251.07	664,807.96
	2,998.0	13.19	314.53	2,997.0	-958.5	82.3	-74.5	110.7	0.11	659,266.34	664,792.57
	3,094.0	13.89	314.09	3,080.3	-865.2	98.0	-90.6	133.2	0.74	659,282.03	664,776.49
	3,189.0	14.07	315.61	3,172.5	-773.0	114.2	-106.9	156.1	0.43	659,298.22	664,760.22



Smith International, Inc.
Pathfinder X & Y Report



A Schlumberger Company

Company: Mack Energy
Project: Lea County
Site: Brook Federal
Well: #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1
KB = 17.5 @ 3945.5ustf (Silver Oak #2)
KB = 17.5 @ 3945.5ustf (Silver Oak #2)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	TVDSS (ustf)	N/S (ustf)	EW (ustf)	V. Sec (ustf)	DLeg (°/100ustf)	Northing (ustf)	Easting (ustf)
	3,284.0	13.37	315.83	3,264.8	-686.7	130.3	-122.6	178.6	0.74	659,314.35	664,744.49
	3,380.0	13.63	315.10	3,358.2	-587.3	146.3	-138.3	201.0	0.32	659,330.32	664,728.77
	3,475.0	13.37	315.03	3,450.5	-495.0	162.0	-154.0	223.2	0.27	659,346.02	664,713.11
	3,570.0	13.98	315.35	3,542.8	-402.7	178.0	-169.8	245.6	0.65	659,361.96	664,697.28
	3,666.0	13.89	315.24	3,636.0	-309.5	194.4	-186.1	268.8	0.10	659,378.39	664,681.02
	3,761.0	14.18	315.47	3,728.2	-217.3	210.8	-202.3	291.8	0.31	659,394.78	664,664.83
	3,856.0	13.81	316.13	3,820.4	-125.1	227.2	-218.3	314.7	0.42	659,411.25	664,648.81
	3,952.0	12.49	315.58	3,913.8	-31.7	242.9	-233.5	336.6	1.38	659,426.92	664,633.60
	4,047.0	11.43	314.10	4,006.8	61.3	256.8	-247.4	356.2	1.16	659,440.81	664,619.65
	4,142.0	9.67	311.14	4,100.2	154.7	268.6	-260.2	373.6	1.94	659,452.61	664,606.88
	4,237.0	7.83	313.45	4,194.1	248.6	278.3	-270.9	388.1	1.97	659,462.31	664,596.18
	4,333.0	6.16	313.34	4,289.3	343.8	286.3	-279.4	399.8	1.74	659,470.35	664,587.68
	4,428.0	4.84	311.18	4,383.9	438.4	292.5	-286.1	408.9	1.41	659,476.48	664,580.96
	4,524.0	3.34	317.77	4,479.7	534.2	297.2	-291.1	415.7	1.63	659,481.22	664,576.03
	4,633.0	1.93	313.05	4,588.5	643.0	300.8	-294.5	420.7	1.31	659,484.83	664,572.55
	4,728.0	0.62	8.16	4,683.5	738.0	302.4	-295.6	422.6	1.74	659,486.43	664,571.46
	4,823.0	0.53	342.55	4,778.5	833.0	303.4	-295.7	423.3	0.28	659,487.36	664,571.40
	4,919.0	0.88	349.21	4,874.5	929.0	304.5	-296.0	424.3	0.37	659,488.50	664,571.13
	5,014.0	0.79	349.16	4,969.5	1,024.0	305.9	-296.2	425.4	0.09	659,489.86	664,570.87
	5,109.0	0.88	347.67	5,064.5	1,119.0	307.2	-296.5	426.5	0.10	659,491.22	664,570.59
	5,204.0	1.14	346.15	5,159.5	1,214.0	308.8	-296.9	427.9	0.28	659,492.85	664,570.21
	5,300.0	1.06	346.53	5,255.4	1,309.9	310.6	-297.3	429.5	0.08	659,494.64	664,569.77
	5,395.0	1.32	353.51	5,350.4	1,404.9	312.6	-297.7	431.0	0.31	659,496.58	664,569.44
	5,490.0	0.97	310.80	5,445.4	1,499.9	314.2	-298.4	432.7	0.94	659,498.19	664,568.71
	5,585.0	1.06	300.96	5,540.4	1,594.9	315.2	-299.8	434.3	0.21	659,499.17	664,567.35
	5,680.0	1.14	297.45	5,635.4	1,689.9	316.1	-301.3	436.1	0.11	659,500.06	664,565.76
	5,760.0	0.53	332.43	5,731.4	1,785.9	316.9	-302.4	437.4	0.80	659,500.89	664,564.70



Smith International, Inc.
Pathfinder X & Y Report



A Schlumberger Company

Company: Mack Energy
Project: Lea County
Site: Brook Federal
Well: #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: Well #1
MD Reference: KB = 17.5 @ 3945.5ustf (Silver Oak #2)
North Reference: KB = 17.5 @ 3945.5ustf (Silver Oak #2)
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM 5000.1 Single User Db

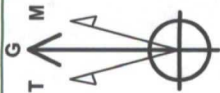
Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	TVDSS (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	Dleg (°/100ustf)	Northing (ustf)	Easting (ustf)
	5.871.0	2.20	246.86	5.826.3	1.880.8	316.6	-304.3	438.6	2.34	659,500.57	664,562.82
	5.966.0	5.36	235.61	5.921.1	1.975.6	313.3	-309.6	440.2	3.40	659,497.34	664,557.48
	6.061.0	6.77	238.29	6.015.6	2.070.1	307.9	-318.0	442.6	1.51	659,491.89	664,549.06
	6.157.0	6.86	237.76	6.110.9	2.165.4	301.9	-327.7	445.5	0.11	659,485.86	664,539.40
	6.252.0	6.77	238.40	6.205.2	2.259.7	295.9	-337.3	448.4	0.12	659,479.90	664,529.83
	6.345.0	4.22	232.53	6.297.8	2.352.3	290.9	-344.7	450.3	2.80	659,474.94	664,522.44
	6.440.0	0.97	193.94	6.392.7	2.447.2	288.0	-347.6	450.5	3.70	659,472.04	664,519.47
	6.536.0	0.79	161.72	6.488.7	2.543.2	286.6	-347.6	449.5	0.54	659,470.62	664,519.48
	6.631.0	0.88	160.20	6.583.7	2.638.2	285.3	-347.2	448.3	0.10	659,469.31	664,519.94
	6.726.0	0.70	196.64	6.678.7	2.733.2	284.1	-347.1	447.4	0.55	659,468.07	664,520.02
	6.821.0	0.62	202.68	6.773.7	2.828.2	283.0	-347.4	446.9	0.11	659,467.04	664,519.65
	6.917.0	0.53	207.25	6.869.7	2.924.2	282.2	-347.8	446.6	0.11	659,466.16	664,519.25
	7.005.0	0.79	199.16	6.957.7	3.012.2	281.2	-348.2	446.3	0.31	659,465.23	664,518.86
	7.062.0	0.79	199.16	7.014.6	3.069.1	280.5	-348.5	446.0	0.00	659,464.49	664,518.61

Design Annotations		Local Coordinates		Comment
Measured Depth (ustf)	Vertical Depth (ustf)	+N/S (ustf)	+E/W (ustf)	
7.062.0	7.014.7	280.5	-348.5	BHL - 7062.0 MD, 7014.7 TVD, 280.5 N, -348.5 E

Checked By: _____

Approved By: _____

Date: _____



Azimuths to Grid North
 True North: -0.29°
 Magnetic North: 7.39°
 Magnetic Field
 Strength: 48945.2nT
 Dip Angle: 60.71°
 Date: 10/13/2011
 Model: IGRF200510

Project: Lea County
 Site: Brook Federal
 Well: #1
 Wellbore: OH
 Plan: Plan #1 (#1/OH)

PATHFINDER® A Schlumberger Company

PROJECT DETAILS: Lea County
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid

WELL DETAILS: #1

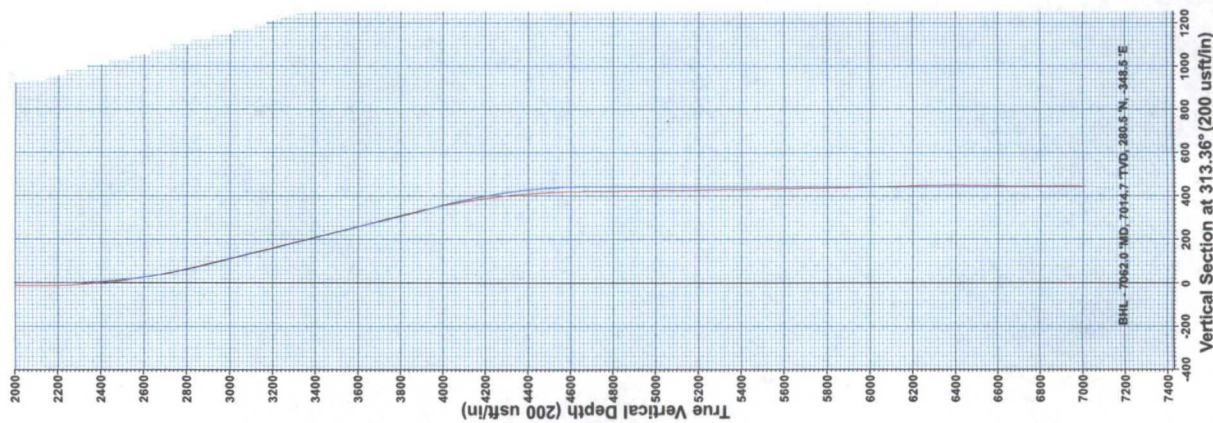
Ground Elevation: 3928.0	KB = 17.5 @ 3945.5usft (Silver Oak #2)
Rig Name: Silver Oak #2	
Northing	Easting
659164.000	664867.100
+N/S	+E/W
0.0	0.0
Longitude	Latitude
103° 47' 46.190 W	32° 48' 35.127 N
Slot	

SECTION DETAILS

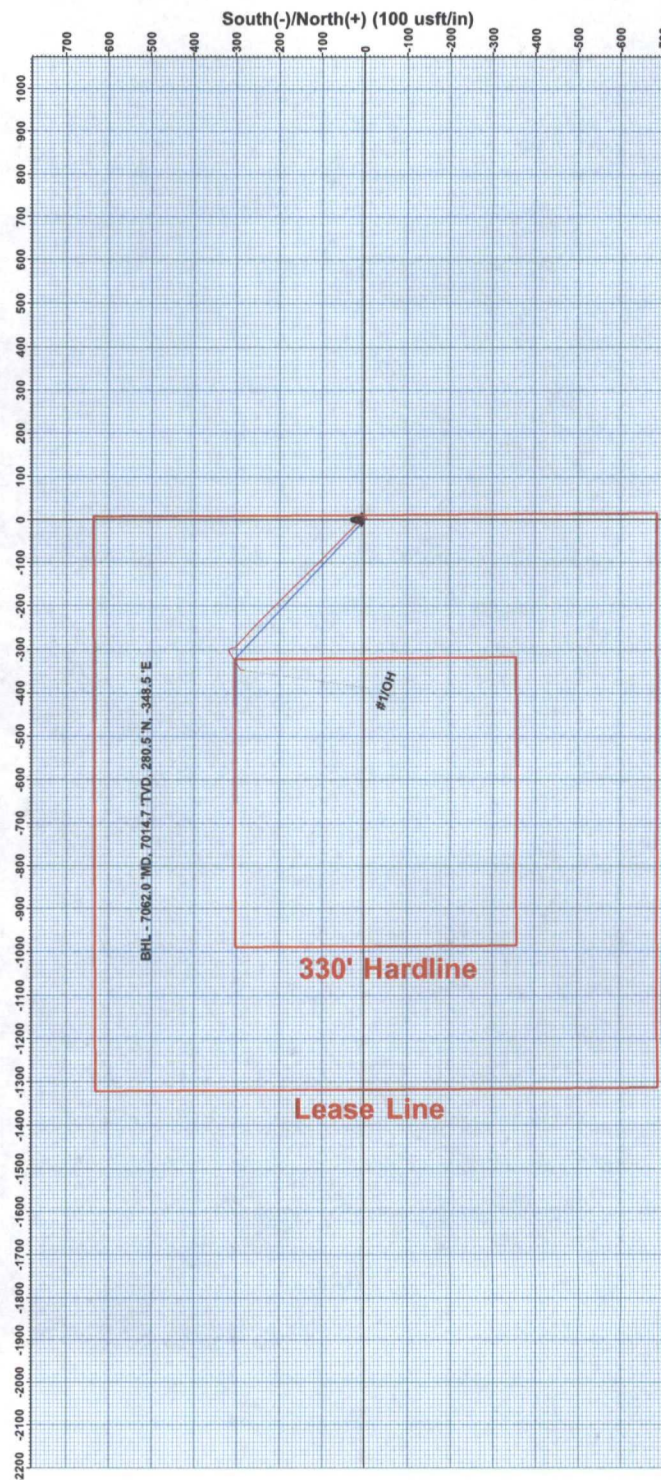
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSecl	Target
1	2200.0	0.00	0.00	2200.0	0.0	0.0	0.00	0.00	0.0	0.0
2	2886.6	13.73	313.36	2886.1	56.2	-59.5	2.00	313.36	81.9	81.9
3	4060.0	13.73	313.36	4019.9	247.5	-262.1	0.00	0.00	360.4	360.4
4	4746.7	0.00	0.00	4700.0	303.7	-321.6	2.00	180.00	442.3	442.3
5	7046.7	0.00	0.00	7000.0	303.7	-321.6	0.00	0.00	442.3	442.3
6										

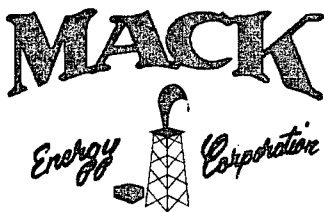
WELLBORE TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting
PBHL (BK #1)	7000.0	303.7	-321.6	659487.700	664545.500



West(-)/East(+) (100 usft/in)





P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

October 28, 2011

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

VIA CERTIFIED MAIL 7011 1150 0001 0155 1209
CERTIFIED RETURN RECEIPT MAIL

Dear Sir or Madam:

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD for an unorthodox Maljamar-Yeso oil well location for the Brook Federal #1 under Rule 104.F. (3). The SHL location for this well is 635 FNL & 10 FEL of Section 30-T17S-R32E, Lea County, New Mexico. Mack Energy Corporation directionally drilled this well to an orthodox BHL of 335.5 FNL & 338 FEL. However final survey revealed a portion of the producing interval is not within the orthodox location boundary, therefore making it unorthodox, within the Yeso formation. Maximum non-standard distance within the Yeso formation are 12' North and 23' East of the desired 330' hard line.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the unorthodox location if no objection to the unorthodox location has been made within the 20 days after the application has been received.

Do to the urgency to produce the Brook Federal #1 attached is a waiver. If your company has no objections, please sign the signature page and mail it back to Mack Energy Corporation in the envelope provided.

Sincerely,

Deana Weaver
Production Clerk

DW
Enclosures



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

October 28, 2011

Concho Operating, LLC
550 West Texas Ave, Suite 100
Midland, TX 79701

VIA CERTIFIED MAIL 7011 1150 0001 0155 1186
CERTIFIED RETURN RECEIPT MAIL

Dear Sir or Madam:

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD for an unorthodox Maljamar-Yeso oil well location for the Brook Federal #1 under Rule 104.F. (3). The SHL location for this well is 635 FNL & 10 FEL of Section 30-T17S-R32E, Lea County, New Mexico. Mack Energy Corporation directionally drilled this well to an orthodox BHL of 335.5 FNL & 338 FEL. However final survey revealed a portion of the producing interval is not within the orthodox location boundary, therefore making it unorthodox, within the Yeso formation. Maximum non-standard distance within the Yeso formation are 12' North and 23' East of the desired 330' hard line.

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Sincerely,

Deana Weaver
Production Clerk

DW
Enclosures



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

October 28, 2011

Oxy USA Inc.
5 Greenway Plaza, Suite 110
Houston, TX 77046

VIA CERTIFIED MAIL 7011 1150 0001 0155 1193
CERTIFIED RETURN RECEIPT MAIL

Dear Sir or Madam:

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD for an unorthodox Maljamar-Yeso oil well location for the Brook Federal #1 under Rule 104.F. (3). The SHL location for this well is 635 FNL & 10 FEL of Section 30-T17S-R32E, Lea County, New Mexico. Mack Energy Corporation directionally drilled this well to an orthodox BHL of 335.5 FNL & 338 FEL. However final survey revealed a portion of the producing interval is not within the orthodox location boundary, therefore making it unorthodox, within the Yeso formation. Maximum non-standard distance within the Yeso formation are 12' North and 23' East of the desired 330' hard line.

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Do to the urgency to produce the Brook Federal #1 attached is a waiver. If your company has no objections, please sign the signature page and mail it back to Mack Energy Corporation in the envelope provided.

Sincerely,

Deana Weaver
Production Clerk

DW
Enclosures

Brooks, David K., EMNRD

From: Jones, William V., EMNRD
Sent: Tuesday, November 15, 2011 2:11 PM
To: Brooks, David K., EMNRD
Subject: FW: Brook Federal #1 NSL
Attachments: Brook Federal #1 Waivers.pdf

-----Original Message-----

From: Deana Weaver [<mailto:dweaver@mec.com>]
Sent: Tuesday, November 15, 2011 1:19 PM
To: Jones, William V., EMNRD
Cc: Jerry Sherrell
Subject: Brook Federal #1 NSL

<<Brook Federal #1 Waivers.pdf>> Will

Attached are signed waivers from the offset operators that were notified on the Brook Federal #1 NSL. Could we please have the Brook Federal #1 NSL application expedited? I mailed you the application on October 28, 2011. Please let me know if you have any questions.

Thank you

Deana Weaver
Mack Energy Corporation
(575)748-1288

SIGNATURE PAGE

The undersigned approves of Mack Energy Corporation's Unorthodox Location. This well encroaches the NW/4NW/4 Sec. 29 T17S R32E, SW/4SW/4 Sec 20 T17S R32E, SE/4SE/4 Sec. 19 T17S R32E.

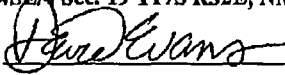
**Brook Federal #1
SL 635 FNL & 10 FEL
BHL 335.5 FNL & 338 FEL
Sec 30 T17S R32E**

**Oxy USA Inc.
NW/4NW/4 Sec. 29 T17S R32E, NMLC-029410-A**

By: _____

Date: _____

**Concho Operating, LLC
SW/4SW/4 Sec 20 T17S R32E, NMLC-029405-B
SE/4SE/4 Sec. 19 T17S R32E, NMLC-029405-B**

By: 
CW

Date: 11-11-11

**Bureau of Land Management-CFO
SW/4SW/4 Sec 20 T17S R32E, NMLC-029405-B
SE/4SE/4 Sec. 19 T17S R32E, NMLC-029405-B
NW/4NW/4 Sec. 29 T17S R32E, NMLC-029410-A**

By: _____

Date: _____

NOV-07-2011 MON 09:57 AM

FAX NO.

P. 02

RECEIVED
NOV 07 2011

SIGNATURE PAGE

The undersigned approves of Mack Energy Corporation's Unorthodox Location. This well encroaches the NW/4NW/4 Sec. 29 T17S R32E, SW/4SW/4 Sec 20 T17S R32E, SE/4SE/4 Sec. 19 T17S R32E.

Brook Federal #1
SL 639 FNL & 10 FEL
BHL 335.5 FNL & 338 FEL
Sec 30 T17S R32E

Oxy USA Inc.
NW/4NW/4 Sec. 29 T17S R32E, NMLC-029410-A

By: [Signature]
Curtis Bryant

Date: 11/7/11

Concho Operating, LLC
SW/4SW/4 Sec 20 T17S R32E, NMLC-029405-B
SE/4SE/4 Sec. 19 T17S R32E, NMLC-029405-B

By: _____

Date: _____

Bureau of Land Management-CFO
SW/4SW/4 Sec 20 T17S R32E, NMLC-029405-B
SE/4SE/4 Sec. 19 T17S R32E, NMLC-029405-B
NW/4NW/4 Sec. 29 T17S R32E, NMLC-029410-A

By: _____

Date: _____

NOV-11-2011 FRI 08:56 AM

FAX NO.

P. 02/02

SIGNATURE PAGE

The undersigned approves of Maack Energy Corporation's Unorthodox Location. This well encroaches the NW/4NW/4 Sec. 29 T17S R32E, SW/4SW/4 Sec 20 T17S R32E, SE/4SE/4 Sec. 19 T17S R32E.

Brook Federal #1
SL 635 FNL & 10 FEL
BHL 335.5 FNL & 338 FEL
Sec 30 T17S R32E

Oxy USA Inc.
NW/4NW/4 Sec. 29 T17S R32E, NMLC-029410-A

By: _____

Date: _____

~~Concho Operating, LLC~~
SW/4SW/4 Sec 20 T17S R32E, NMLC-029405-B
SE/4SE/4 Sec. 19 T17S R32E, NMLC-029405-B

> Lessee is Conoco Phillips

By: _____

Date: _____

Bureau of Land Management-CFO
SW/4SW/4 Sec 20 T17S R32E, NMLC-029405-B
SE/4SE/4 Sec. 19 T17S R32E, NMLC-029405-B
NW/4NW/4 Sec. 29 T17S R32E, NMLC-029410-A

By: Healey H. Ingram
for Don Peterson

Date: Nov. 15, 2011