

Well Name: STACK CATS 25-36 FEDERAL COM	Well Location: T22S / R32E / SEC 24 / SESW / 32.371122 / -103.632388	County or Parish/State: LEA / NM
Well Number: 32H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM002379	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550950	Well Status: Drilling Well	Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2730866

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 05/15/2023	Time Sundry Submitted: 08:26
Date proposed operation will begin: 05/16/2023	

Procedure Description: OXY USA INC. respectfully requests approval to amend our current APD to shift the lateral location, We encountered issues while drilling and need to adjust our location to account for this. We request the lateral to shift 765' east (From 1540' FWL to 2305' FWL), we also will have a difference in TVD Depths from 12317' TVD to 12265' TVD (Still within the same pool). The updated C102 Plat, Directional Plan, and Drilling Plan are all attached that reflect these changes.

NOI Attachments

Procedure Description

- IP9980_WEL04NM_C102_STACK_CATS_25_36_FED_COM_32H_20230515082552.pdf
- StackCats25_36FedCom32H_DirectPlan_20230515082533.pdf
- StackCats25_36FedCom32H_DrillPlan_20230515082536.pdf

Received by OCD: 5/24/2023 11:49:31 AM

Well Name: STACK CATS 25-36
FEDERAL COM

Well Location: T22S / R32E / SEC 24 /
SESW / 32.371122 / -103.632388

County or Parish/State: LEA /
NM

Well Number: 32H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM002379

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002550950

Well Status: Drilling Well

Operator: OXY USA
INCORPORATED

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SARAH MCKINNEY
Signed on: MAY 15, 2023 08:26 AM
Name: OXY USA INCORPORATED
Title: Regulatory Analyst Sr
Street Address: 5 GREENWAY PLAZA SUITE 110
City: HOUSTON State: TX
Phone: (713) 215-7295
Email address: SARAH_MCKINNEY@OXY.COM

Field

Representative Name:
Street Address:
City: State: Zip:
Phone:
Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY
BLM POC Title: ENGINEER
BLM POC Phone: 5759884722
BLM POC Email Address: KIMMATTY@BLM.GOV
Disposition: Approved
Disposition Date: 05/24/2023
Signature: Keith Immatty

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 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 Brazos Road, Aztec, 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

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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-50950	² Pool Code 98177	³ Pool Name WC-025 G-09 S223332A
⁴ Property Code 333676	⁵ Property Name STACK CATS 25_36 FED COM	⁶ Well Number 32H
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁹ Elevation 3757'

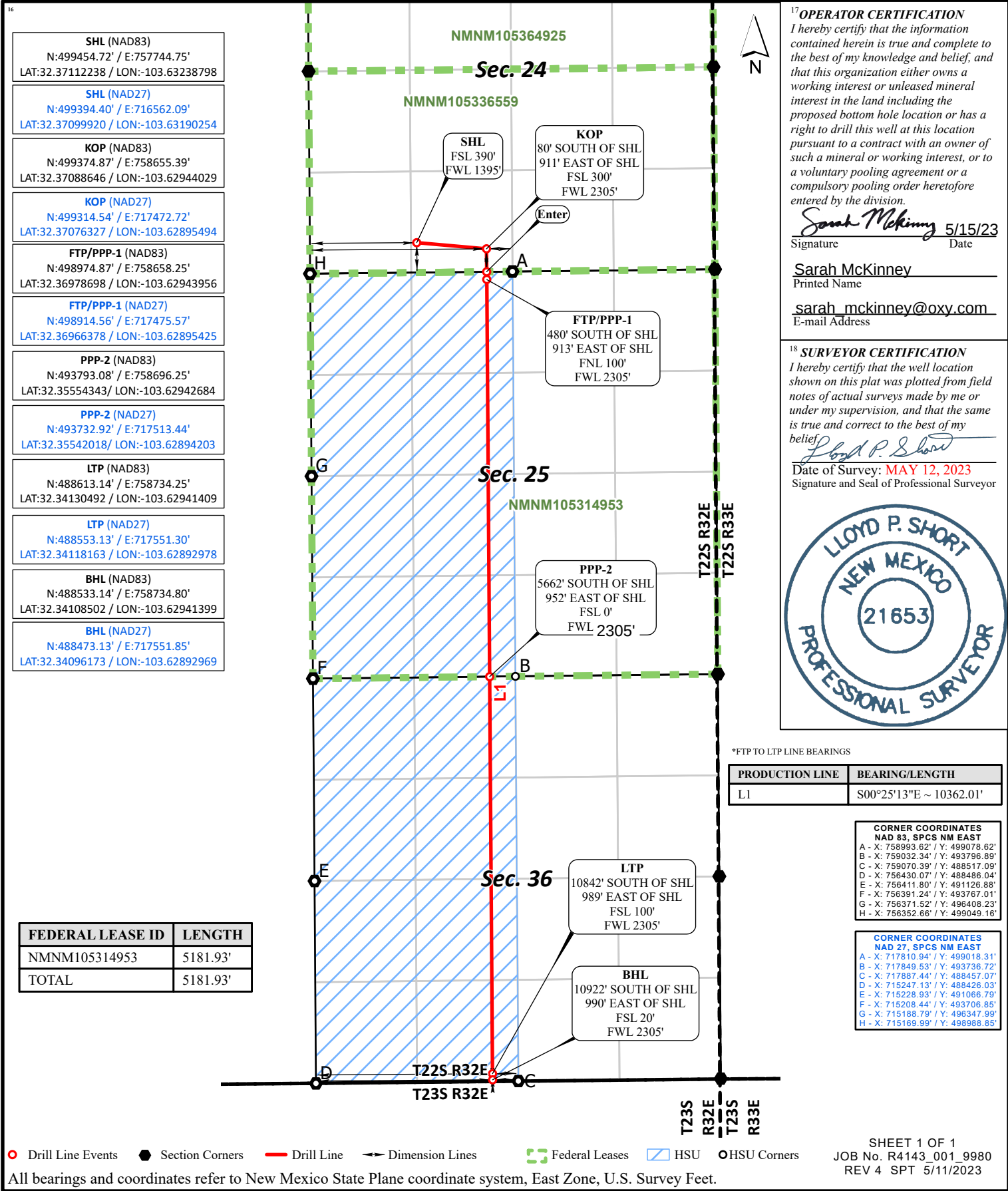
¹⁰ Surface Location

UL or lot no. N	Section 24	Township 22S	Range 32E	Lot Idn	Feet from the 390	North/South line South	Feet from the 1395	East/West line West	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. N	Section 36	Township 22S	Range 32E	Lot Idn	Feet from the 20	North/South line South	Feet from the 2305	East/West line West	County LEA
¹² Dedicated Acres 640.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Stack Cats 25_36

Stack Cats 25_36 Fed Com 32H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

12 May, 2023

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	Stack Cats 25_36		
Site Position:		Northing:	499,452.71 usft
From:	Map	Easting:	757,564.76 usft
Position Uncertainty:	1.00 ft	Slot Radius:	13.200 in
		Latitude:	32.371120
		Longitude:	-103.632971

Well	Stack Cats 25_36 Fed Com 32H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	1.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.38 °		
		Latitude:	32.371122
		Longitude:	-103.632388
		Ground Level:	3,757.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/16/2021	6.38	60.02	47,780.70000000

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	174.82

Plan Survey Tool Program	Date	5/12/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,654.97	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM
				OWSG MWD + HRGM

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Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
116.00	0.07	265.67	116.00	0.00	-0.06	0.08	0.08	0.00	265.67	
216.00	0.16	259.01	216.00	-0.04	-0.25	0.09	0.09	-6.66	-11.79	
316.00	0.28	311.18	316.00	0.10	-0.57	0.22	0.12	52.17	86.96	
416.00	0.19	338.17	416.00	0.41	-0.82	0.14	-0.09	26.99	142.08	
516.00	0.14	250.94	516.00	0.53	-1.00	0.23	-0.05	-87.23	-142.65	
616.00	0.30	307.77	616.00	0.65	-1.32	0.25	0.16	56.83	84.51	
716.00	0.35	308.58	716.00	1.00	-1.77	0.05	0.05	0.81	5.66	
816.00	0.38	319.44	815.99	1.44	-2.22	0.08	0.03	10.86	72.05	
916.00	0.57	330.91	915.99	2.13	-2.68	0.21	0.19	11.47	32.40	
987.00	0.71	339.75	986.99	2.85	-3.00	0.24	0.20	12.45	39.67	
1,116.00	0.95	329.68	1,115.97	4.52	-3.82	0.22	0.19	-7.81	-36.39	
1,209.00	0.43	128.59	1,208.97	4.97	-3.93	1.46	-0.56	170.87	173.47	
1,303.00	1.89	153.39	1,302.95	3.36	-2.96	1.61	1.55	26.38	31.66	
1,398.00	1.72	154.57	1,397.90	0.68	-1.65	0.18	-0.18	1.24	168.26	
1,492.00	0.94	213.56	1,491.88	-1.24	-1.47	1.57	-0.83	62.76	146.89	
1,587.00	1.09	247.05	1,586.86	-2.24	-2.73	0.63	0.16	35.25	92.94	
1,682.00	0.97	254.22	1,681.85	-2.81	-4.34	0.19	-0.13	7.55	136.50	
1,776.00	0.81	181.75	1,775.84	-3.69	-5.13	1.13	-0.17	-77.10	-133.22	
1,871.00	1.18	163.43	1,870.83	-5.30	-4.87	0.51	0.39	-19.28	-50.09	
1,965.00	1.12	157.90	1,964.81	-7.08	-4.25	0.13	-0.06	-5.88	-121.14	
2,060.00	1.26	164.96	2,059.79	-8.95	-3.63	0.21	0.15	7.43	49.89	
2,154.00	1.17	159.52	2,153.77	-10.85	-3.02	0.16	-0.10	-5.79	-130.66	
2,249.00	1.29	154.30	2,248.74	-12.72	-2.22	0.17	0.13	-5.49	-45.67	
2,344.00	0.36	166.44	2,343.73	-13.97	-1.68	0.99	-0.98	12.78	175.39	
2,439.00	0.28	319.12	2,438.73	-14.09	-1.77	0.65	-0.08	160.72	168.08	
2,533.00	0.36	315.38	2,532.73	-13.70	-2.12	0.09	0.09	-3.98	-16.51	
2,628.00	0.37	336.66	2,627.73	-13.21	-2.46	0.14	0.01	22.40	96.47	
2,723.00	0.55	346.20	2,722.73	-12.49	-2.69	0.21	0.19	10.04	27.87	
2,817.00	0.74	340.00	2,816.72	-11.48	-3.00	0.22	0.20	-6.60	-23.29	
2,912.00	1.05	353.59	2,911.71	-10.04	-3.31	0.39	0.33	14.31	41.32	
3,007.00	1.19	46.57	3,006.69	-8.49	-2.69	1.06	0.15	55.77	109.34	
3,102.00	1.69	90.27	3,101.66	-7.82	-0.57	1.23	0.53	46.00	88.43	
3,196.00	2.74	103.74	3,195.59	-8.36	3.00	1.24	1.12	14.33	33.21	
3,291.00	4.25	105.06	3,290.41	-9.82	8.60	1.59	1.59	1.39	3.71	
3,386.00	4.81	105.92	3,385.12	-11.82	15.83	0.59	0.59	0.91	7.34	
3,481.00	3.93	104.17	3,479.84	-13.71	22.82	0.94	-0.93	-1.84	-172.26	
3,575.00	3.78	105.94	3,573.63	-15.35	28.92	0.20	-0.16	1.88	142.45	
3,670.00	4.09	107.29	3,668.40	-17.22	35.17	0.34	0.33	1.42	17.31	
3,764.00	4.21	105.01	3,762.16	-19.11	41.70	0.22	0.13	-2.43	-55.11	
3,859.00	4.45	102.96	3,856.89	-20.84	48.66	0.30	0.25	-2.16	-33.84	
3,954.00	4.70	100.74	3,951.58	-22.39	56.08	0.32	0.26	-2.34	-36.42	
4,048.00	4.64	97.87	4,045.27	-23.63	63.63	0.26	-0.06	-3.05	-105.83	
4,143.00	4.64	96.94	4,139.96	-24.62	71.25	0.08	0.00	-0.98	-90.46	
4,238.00	4.87	94.32	4,234.63	-25.39	79.08	0.33	0.24	-2.76	-44.67	
4,332.00	5.02	96.96	4,328.28	-26.19	87.14	0.29	0.16	2.81	57.93	
4,427.00	5.22	100.49	4,422.90	-27.48	95.52	0.39	0.21	3.72	59.36	
4,521.00	5.52	103.69	4,516.49	-29.32	104.12	0.45	0.32	3.40	46.55	

OXY

Planning Report

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Company:	ENGINEERING DESIGNS							TVD Reference:		RKB=25' @ 3782.00ft	
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)							MD Reference:		RKB=25' @ 3782.00ft	
Site:	Stack Cats 25_36							North Reference:		Grid	
Well:	Stack Cats 25_36 Fed Com 32H							Survey Calculation Method:		Minimum Curvature	
Wellbore:	Wellbore #1										
Design:	Permitting Plan										
	4,616.00	5.30	108.01	4,611.07	-31.76	112.73	0.49	-0.23	4.55	120.51	
	4,711.00	4.88	107.43	4,705.69	-34.33	120.76	0.45	-0.44	-0.61	-173.30	
	4,805.00	4.65	107.58	4,799.37	-36.68	128.20	0.25	-0.24	0.16	176.97	
	4,900.00	4.71	106.16	4,894.05	-38.93	135.62	0.14	0.06	-1.49	-63.33	
	4,995.00	4.56	106.77	4,988.74	-41.10	142.98	0.17	-0.16	0.64	162.11	
	5,089.00	4.64	106.46	5,082.44	-43.26	150.21	0.09	0.09	-0.33	-17.42	
	5,184.00	4.69	104.28	5,177.12	-45.30	157.65	0.19	0.05	-2.29	-75.34	
	5,279.00	4.63	102.32	5,271.81	-47.08	165.16	0.18	-0.06	-2.06	-111.62	
	5,373.00	4.68	101.85	5,365.50	-48.68	172.62	0.07	0.05	-0.50	-37.57	
	5,468.00	4.73	103.18	5,460.18	-50.37	180.23	0.13	0.05	1.40	66.04	
	5,563.00	4.81	101.67	5,554.85	-52.06	187.94	0.16	0.08	-1.59	-58.25	
	5,657.00	4.73	102.02	5,648.53	-53.67	195.59	0.09	-0.09	0.37	160.18	
	5,752.00	4.79	103.89	5,743.20	-55.44	203.28	0.18	0.06	1.97	69.79	
	5,847.00	4.82	103.96	5,837.86	-57.35	211.00	0.03	0.03	0.07	11.09	
	5,942.00	5.04	102.57	5,932.51	-59.22	218.95	0.26	0.23	-1.46	-29.19	
	6,036.00	5.05	102.33	6,026.15	-61.00	227.02	0.02	0.01	-0.26	-64.77	
	6,131.00	5.09	103.18	6,120.78	-62.86	235.21	0.09	0.04	0.89	62.39	
	6,226.00	5.34	103.78	6,215.38	-64.87	243.60	0.27	0.26	0.63	12.60	
	6,320.00	5.48	102.39	6,308.96	-66.88	252.23	0.20	0.15	-1.48	-43.80	
	6,415.00	5.52	102.34	6,403.53	-68.83	261.13	0.04	0.04	-0.05	-6.86	
	6,510.00	5.55	103.48	6,498.08	-70.87	270.06	0.12	0.03	1.20	75.31	
	6,604.00	5.74	104.15	6,591.63	-73.08	279.04	0.21	0.20	0.71	19.46	
	6,699.00	5.73	105.29	6,686.15	-75.50	288.22	0.12	-0.01	1.20	95.58	
	6,794.00	5.61	108.15	6,780.69	-78.19	297.21	0.32	-0.13	3.01	114.43	
	6,889.00	5.75	108.93	6,875.22	-81.18	306.12	0.17	0.15	0.82	29.26	
	6,984.00	5.93	108.76	6,969.73	-84.30	315.27	0.19	0.19	-0.18	-5.57	
	7,079.00	5.49	114.44	7,064.26	-87.76	324.05	0.75	-0.46	5.98	130.71	
	7,173.00	5.05	118.12	7,157.86	-91.57	331.80	0.59	-0.47	3.91	144.29	
	7,268.00	5.00	117.77	7,252.50	-95.47	339.15	0.06	-0.05	-0.37	-148.66	
	7,363.00	4.82	123.86	7,347.15	-99.63	346.12	0.58	-0.19	6.41	112.07	
	7,457.00	3.42	129.65	7,440.90	-103.62	351.56	1.55	-1.49	6.16	166.33	
	7,552.00	2.28	120.27	7,535.78	-106.38	355.38	1.29	-1.20	-9.87	-162.39	
	7,646.00	0.32	182.51	7,629.76	-107.58	356.98	2.29	-2.09	66.21	172.43	
	7,741.00	0.31	191.71	7,724.76	-108.10	356.92	0.05	-0.01	9.68	105.76	
	7,836.00	0.35	217.74	7,819.75	-108.58	356.69	0.16	0.04	27.40	88.32	
	7,931.00	0.38	203.39	7,914.75	-109.10	356.38	0.10	0.03	-15.11	-79.10	
	8,025.00	0.45	214.55	8,008.75	-109.69	356.05	0.11	0.07	11.87	54.78	
	8,120.00	0.62	226.96	8,103.75	-110.35	355.46	0.22	0.18	13.06	40.59	
	8,214.00	0.69	215.54	8,197.74	-111.15	354.76	0.16	0.07	-12.15	-67.59	
	8,309.00	0.79	216.21	8,292.73	-112.15	354.04	0.11	0.11	0.71	5.28	
	8,403.00	0.98	221.76	8,386.72	-113.27	353.12	0.22	0.20	5.90	27.08	
	8,498.00	0.90	216.90	8,481.71	-114.47	352.14	0.12	-0.08	-5.12	-137.51	
	8,593.00	1.02	208.94	8,576.69	-115.81	351.28	0.19	0.13	-8.38	-52.04	
	8,688.00	1.10	214.07	8,671.68	-117.30	350.36	0.13	0.08	5.40	52.45	
	8,782.00	1.42	217.87	8,765.66	-118.97	349.14	0.35	0.34	4.04	16.54	
	8,877.00	1.50	220.88	8,860.62	-120.84	347.60	0.12	0.08	3.17	45.30	
	8,972.00	1.68	215.09	8,955.59	-122.92	345.99	0.25	0.19	-6.09	-44.67	
	9,066.00	1.14	227.61	9,049.56	-124.68	344.50	0.66	-0.57	13.32	156.45	
	9,161.00	0.85	225.32	9,144.54	-125.81	343.31	0.31	-0.31	-2.41	-173.34	
	9,256.00	0.95	215.54	9,239.53	-126.95	342.35	0.19	0.11	-10.29	-61.89	
	9,350.00	1.05	214.88	9,333.52	-128.29	341.40	0.11	0.11	-0.70	-6.90	
	9,445.00	1.31	217.68	9,428.50	-129.86	340.24	0.28	0.27	2.95	13.91	
	9,540.00	1.43	212.19	9,523.47	-131.72	338.94	0.19	0.13	-5.78	-50.33	
	9,646.00	0.76	185.97	9,629.45	-133.54	338.17	0.77	-0.63	-24.74	-155.83	
	9,740.00	1.30	194.76	9,723.44	-135.19	337.83	0.60	0.57	9.35	20.73	

OXY

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Wellbore:	Wellbore #1		
Design:	Permitting Plan		

9,835.00	1.82	208.95	9,818.40	-137.56	336.83	0.68	0.55	14.94	43.84
9,930.00	1.85	207.17	9,913.35	-140.24	335.40	0.07	0.03	-1.87	-63.13
10,024.00	2.13	210.31	10,007.30	-143.10	333.82	0.32	0.30	3.34	22.85
10,119.00	2.48	215.92	10,102.22	-146.29	331.72	0.44	0.37	5.91	35.63
10,214.00	2.25	216.51	10,197.14	-149.45	329.41	0.24	-0.24	0.62	174.25
10,308.00	2.39	226.87	10,291.06	-152.27	326.88	0.47	0.15	11.02	76.76
10,403.00	2.37	247.09	10,385.98	-154.39	323.63	0.88	-0.02	21.28	101.45
10,498.00	2.23	239.67	10,480.91	-156.09	320.22	0.35	-0.15	-7.81	-118.86
10,592.00	2.87	233.56	10,574.81	-158.41	316.75	0.74	0.68	-6.50	-26.09
10,687.00	3.37	230.59	10,669.67	-161.60	312.68	0.55	0.53	-3.13	-19.40
10,782.00	3.95	227.96	10,764.48	-165.56	308.09	0.64	0.61	-2.77	-17.46
10,876.00	3.31	218.42	10,858.29	-169.85	304.00	0.93	-0.68	-10.15	-141.35
10,971.00	3.36	216.62	10,953.13	-174.24	300.63	0.12	0.05	-1.89	-65.38
11,065.00	3.26	214.24	11,046.97	-178.66	297.49	0.18	-0.11	-2.53	-127.23
11,160.00	3.52	209.47	11,141.80	-183.43	294.53	0.40	0.27	-5.02	-49.73
11,255.00	3.41	200.73	11,236.63	-188.61	292.10	0.57	-0.12	-9.20	-106.10
11,350.00	3.01	206.55	11,331.48	-193.49	289.98	0.54	-0.42	6.13	143.71
11,378.00	3.03	208.24	11,359.44	-194.80	289.30	0.33	0.07	6.04	78.18
11,477.70	3.03	208.24	11,459.00	-199.44	286.81	0.00	0.00	0.00	0.00
12,435.28	88.90	153.80	12,068.61	-764.64	536.22	9.10	8.97	-5.69	-54.53
14,153.91	88.90	179.58	12,102.14	-2,422.73	928.42	1.50	0.00	1.50	90.25
22,654.97	88.90	179.58	12,264.99	-10,922.01	990.09	0.00	0.00	0.00	0.00 PBHL (Stack Cats

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.06	265.67	100.00	0.00	-0.04	0.00	0.08	0.08	0.00
116.00	0.07	265.67	116.00	0.00	-0.06	0.00	0.08	0.08	0.00
200.00	0.15	259.52	200.00	-0.03	-0.21	0.01	0.09	0.09	-7.32
216.00	0.16	259.01	216.00	-0.04	-0.25	0.01	0.09	0.09	-3.20
300.00	0.25	306.57	300.00	0.05	-0.52	-0.10	0.22	0.11	56.62
316.00	0.28	311.18	316.00	0.10	-0.57	-0.15	0.22	0.18	28.80
400.00	0.20	332.35	400.00	0.36	-0.80	-0.43	0.14	-0.09	25.20
416.00	0.19	338.17	416.00	0.41	-0.82	-0.49	0.14	-0.07	36.37
500.00	0.12	265.25	500.00	0.54	-0.96	-0.62	0.23	-0.08	-86.81
516.00	0.14	250.94	516.00	0.53	-1.00	-0.62	0.23	0.11	-89.42
600.00	0.26	303.71	600.00	0.60	-1.26	-0.71	0.25	0.15	62.82
616.00	0.30	307.77	616.00	0.65	-1.32	-0.76	0.25	0.22	25.37
700.00	0.34	308.47	700.00	0.94	-1.69	-1.09	0.05	0.05	0.83
716.00	0.35	308.58	716.00	1.00	-1.77	-1.15	0.05	0.05	0.71
800.00	0.37	317.82	799.99	1.36	-2.15	-1.55	0.08	0.03	11.01
816.00	0.38	319.44	815.99	1.44	-2.22	-1.64	0.08	0.04	10.09
900.00	0.54	329.62	899.99	1.99	-2.60	-2.22	0.21	0.19	12.12
916.00	0.57	330.91	915.99	2.13	-2.68	-2.36	0.21	0.20	8.04
987.00	0.71	339.75	986.99	2.85	-3.00	-3.11	0.24	0.20	12.45
1,000.00	0.73	338.44	999.98	3.00	-3.06	-3.27	0.22	0.18	-10.07
1,100.00	0.92	330.64	1,099.97	4.30	-3.69	-4.61	0.22	0.19	-7.80
1,116.00	0.95	329.68	1,115.97	4.52	-3.82	-4.85	0.22	0.19	-6.00
1,200.00	0.30	122.35	1,199.97	5.00	-3.98	-5.34	1.46	-0.77	181.75
1,209.00	0.43	128.59	1,208.97	4.97	-3.93	-5.30	1.46	1.40	69.32
1,300.00	1.84	153.21	1,299.95	3.45	-3.01	-3.71	1.61	1.55	27.06
1,303.00	1.89	153.39	1,302.95	3.36	-2.96	-3.62	1.61	1.60	5.97
1,398.00	1.72	154.57	1,397.90	0.68	-1.65	-0.82	0.18	-0.18	1.24
1,400.00	1.69	155.15	1,399.90	0.62	-1.63	-0.77	1.57	-1.31	29.00
1,492.00	0.94	213.56	1,491.88	-1.24	-1.47	1.10	1.57	-0.82	63.49
1,500.00	0.94	216.65	1,499.88	-1.35	-1.55	1.20	0.63	-0.02	38.66
1,587.00	1.09	247.05	1,586.86	-2.24	-2.73	1.99	0.63	0.17	34.94
1,600.00	1.07	247.93	1,599.86	-2.34	-2.96	2.06	0.19	-0.13	6.81
1,682.00	0.97	254.22	1,681.85	-2.81	-4.34	2.41	0.19	-0.13	7.66
1,700.00	0.84	244.13	1,699.85	-2.91	-4.61	2.49	1.13	-0.70	-56.07
1,776.00	0.81	181.75	1,775.84	-3.69	-5.13	3.22	1.13	-0.04	-82.08
1,800.00	0.89	175.73	1,799.84	-4.05	-5.12	3.57	0.51	0.35	-25.09
1,871.00	1.18	163.43	1,870.83	-5.30	-4.87	4.84	0.51	0.40	-17.32
1,900.00	1.16	161.79	1,899.82	-5.87	-4.69	5.42	0.13	-0.07	-5.67
1,965.00	1.12	157.90	1,964.81	-7.08	-4.25	6.67	0.13	-0.06	-5.98
2,000.00	1.17	160.70	1,999.80	-7.74	-4.00	7.34	0.21	0.14	7.99
2,060.00	1.26	164.96	2,059.79	-8.95	-3.63	8.59	0.21	0.15	7.11
2,100.00	1.22	162.74	2,099.78	-9.78	-3.38	9.44	0.16	-0.10	-5.54
2,154.00	1.17	159.52	2,153.77	-10.85	-3.02	10.53	0.16	-0.09	-5.97
2,200.00	1.23	156.87	2,199.76	-11.74	-2.66	11.45	0.17	0.12	-5.77
2,249.00	1.29	154.30	2,248.74	-12.72	-2.22	12.47	0.17	0.13	-5.23
2,300.00	0.79	157.26	2,299.73	-13.56	-1.83	13.34	0.99	-0.99	5.80
2,344.00	0.36	166.44	2,343.73	-13.97	-1.68	13.76	0.99	-0.97	20.87
2,400.00	0.08	255.57	2,399.73	-14.15	-1.68	13.94	0.65	-0.51	159.16
2,439.00	0.28	319.12	2,438.73	-14.09	-1.77	13.87	0.65	0.52	162.94
2,500.00	0.33	316.49	2,499.73	-13.85	-1.99	13.61	0.09	0.08	-4.32
2,533.00	0.36	315.38	2,532.73	-13.70	-2.12	13.46	0.09	0.09	-3.36
2,600.00	0.36	330.55	2,599.73	-13.37	-2.38	13.10	0.14	0.00	22.64
2,628.00	0.37	336.66	2,627.73	-13.21	-2.46	12.93	0.14	0.03	21.82

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)	
2,700.00	0.51	344.52	2,699.73	-12.69	-2.63	12.40	0.21	0.19	10.91	
2,723.00	0.55	346.20	2,722.73	-12.49	-2.69	12.19	0.21	0.19	7.32	
2,800.00	0.71	340.87	2,799.72	-11.68	-2.93	11.37	0.22	0.20	-6.92	
2,817.00	0.74	340.00	2,816.72	-11.48	-3.00	11.16	0.22	0.21	-5.13	
2,900.00	1.01	352.34	2,899.71	-10.25	-3.28	9.91	0.39	0.32	14.87	
2,912.00	1.05	353.59	2,911.71	-10.04	-3.31	9.70	0.39	0.35	10.40	
3,000.00	1.15	43.49	2,999.69	-8.59	-2.79	8.31	1.06	0.11	56.71	
3,007.00	1.19	46.57	3,006.69	-8.49	-2.69	8.22	1.06	0.56	43.97	
3,100.00	1.67	89.68	3,099.67	-7.82	-0.63	7.73	1.23	0.52	46.35	
3,102.00	1.69	90.27	3,101.66	-7.82	-0.57	7.74	1.23	0.87	29.65	
3,196.00	2.74	103.74	3,195.59	-8.36	3.00	8.60	1.24	1.12	14.33	
3,200.00	2.80	103.82	3,199.59	-8.41	3.19	8.66	1.59	1.59	2.11	
3,291.00	4.25	105.06	3,290.41	-9.82	8.60	10.55	1.59	1.59	1.36	
3,300.00	4.30	105.15	3,299.39	-9.99	9.25	10.78	0.59	0.59	1.01	
3,386.00	4.81	105.92	3,385.12	-11.82	15.83	13.20	0.59	0.59	0.89	
3,400.00	4.68	105.70	3,399.07	-12.14	16.95	13.62	0.94	-0.93	-1.55	
3,481.00	3.93	104.17	3,479.84	-13.71	22.82	15.72	0.94	-0.93	-1.89	
3,500.00	3.90	104.52	3,498.80	-14.03	24.08	16.15	0.20	-0.16	1.83	
3,575.00	3.78	105.94	3,573.63	-15.35	28.92	17.90	0.20	-0.16	1.90	
3,600.00	3.86	106.32	3,598.57	-15.81	30.52	18.51	0.34	0.33	1.50	
3,670.00	4.09	107.29	3,668.40	-17.22	35.17	20.32	0.34	0.33	1.39	
3,700.00	4.13	106.55	3,698.33	-17.84	37.22	21.13	0.22	0.13	-2.47	
3,764.00	4.21	105.01	3,762.16	-19.11	41.70	22.80	0.22	0.13	-2.40	
3,800.00	4.30	104.21	3,798.06	-19.78	44.29	23.70	0.30	0.25	-2.23	
3,859.00	4.45	102.96	3,856.89	-20.84	48.66	25.15	0.30	0.25	-2.11	
3,900.00	4.56	101.97	3,897.76	-21.53	51.80	26.12	0.32	0.26	-2.41	
3,954.00	4.70	100.74	3,951.58	-22.39	56.08	27.36	0.32	0.26	-2.28	
4,000.00	4.67	99.34	3,997.43	-23.05	59.78	28.35	0.26	-0.07	-3.03	
4,048.00	4.64	97.87	4,045.27	-23.63	63.63	29.28	0.26	-0.06	-3.07	
4,100.00	4.64	97.36	4,097.10	-24.19	67.80	30.21	0.08	0.00	-0.98	
4,143.00	4.64	96.94	4,139.96	-24.62	71.25	30.95	0.08	0.00	-0.98	
4,200.00	4.78	95.34	4,196.77	-25.12	75.90	31.87	0.33	0.24	-2.81	
4,238.00	4.87	94.32	4,234.63	-25.39	79.08	32.42	0.33	0.25	-2.68	
4,300.00	4.97	96.08	4,296.40	-25.87	84.38	33.38	0.29	0.16	2.84	
4,332.00	5.02	96.96	4,328.28	-26.19	87.14	33.95	0.29	0.16	2.75	
4,400.00	5.16	99.51	4,396.01	-27.05	93.11	35.35	0.39	0.21	3.76	
4,427.00	5.22	100.49	4,422.90	-27.48	95.52	35.99	0.39	0.22	3.61	
4,500.00	5.45	103.01	4,495.59	-28.86	102.16	37.97	0.45	0.32	3.45	
4,521.00	5.52	103.69	4,516.49	-29.32	104.12	38.60	0.45	0.33	3.26	
4,600.00	5.33	107.26	4,595.14	-31.31	111.31	41.24	0.49	-0.23	4.52	
4,616.00	5.30	108.01	4,611.07	-31.76	112.73	41.81	0.49	-0.22	4.70	
4,700.00	4.93	107.50	4,694.73	-34.05	119.86	44.73	0.45	-0.44	-0.60	
4,711.00	4.88	107.43	4,705.69	-34.33	120.76	45.09	0.45	-0.44	-0.66	
4,800.00	4.66	107.57	4,794.39	-36.56	127.82	47.95	0.25	-0.24	0.16	
4,805.00	4.65	107.58	4,799.37	-36.68	128.20	48.10	0.25	-0.24	0.17	
4,900.00	4.71	106.16	4,894.05	-38.93	135.62	51.01	0.14	0.06	-1.49	
4,995.00	4.56	106.77	4,988.74	-41.10	142.98	53.84	0.17	-0.16	0.64	
5,000.00	4.56	106.75	4,993.73	-41.22	143.36	53.99	0.09	0.09	-0.34	
5,089.00	4.64	106.46	5,082.44	-43.26	150.21	56.64	0.09	0.09	-0.33	
5,100.00	4.65	106.21	5,093.40	-43.51	151.06	56.97	0.19	0.05	-2.32	
5,184.00	4.69	104.28	5,177.12	-45.30	157.65	59.35	0.19	0.05	-2.29	
5,200.00	4.68	103.95	5,193.07	-45.62	158.92	59.78	0.18	-0.07	-2.04	
5,279.00	4.63	102.32	5,271.81	-47.08	165.16	61.80	0.18	-0.06	-2.07	
5,300.00	4.64	102.21	5,292.74	-47.44	166.82	62.31	0.07	0.05	-0.50	
5,373.00	4.68	101.85	5,365.50	-48.68	172.62	64.06	0.07	0.05	-0.50	

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
5,400.00	4.69	102.23	5,392.41	-49.14	174.78	64.72	0.13	0.05	1.41
5,468.00	4.73	103.18	5,460.18	-50.37	180.23	66.43	0.13	0.05	1.40
5,500.00	4.76	102.67	5,492.07	-50.96	182.81	67.25	0.16	0.08	-1.61
5,563.00	4.81	101.67	5,554.85	-52.06	187.94	68.82	0.16	0.08	-1.58
5,600.00	4.78	101.81	5,591.72	-52.69	190.97	69.72	0.09	-0.09	0.37
5,657.00	4.73	102.02	5,648.53	-53.67	195.59	71.11	0.09	-0.09	0.37
5,700.00	4.76	102.87	5,691.38	-54.44	199.07	72.18	0.18	0.06	1.98
5,752.00	4.79	103.89	5,743.20	-55.44	203.28	73.56	0.18	0.06	1.96
5,800.00	4.81	103.93	5,791.03	-56.40	207.17	74.88	0.03	0.03	0.07
5,847.00	4.82	103.96	5,837.86	-57.35	211.00	76.17	0.03	0.03	0.07
5,900.00	4.94	103.17	5,890.67	-58.41	215.38	77.62	0.26	0.23	-1.49
5,942.00	5.04	102.57	5,932.51	-59.22	218.95	78.75	0.26	0.23	-1.43
6,000.00	5.05	102.42	5,990.29	-60.33	223.92	80.30	0.02	0.01	-0.26
6,036.00	5.05	102.33	6,026.15	-61.00	227.02	81.25	0.02	0.01	-0.26
6,100.00	5.08	102.90	6,089.90	-62.24	232.53	82.98	0.09	0.04	0.90
6,131.00	5.09	103.18	6,120.78	-62.86	235.21	83.84	0.09	0.04	0.89
6,200.00	5.27	103.62	6,189.49	-64.30	241.27	85.82	0.27	0.26	0.64
6,226.00	5.34	103.78	6,215.38	-64.87	243.60	86.60	0.27	0.26	0.61
6,300.00	5.45	102.68	6,289.06	-66.46	250.38	88.80	0.20	0.15	-1.49
6,320.00	5.48	102.39	6,308.96	-66.88	252.23	89.38	0.20	0.15	-1.45
6,400.00	5.51	102.35	6,388.60	-68.52	259.72	91.69	0.04	0.04	-0.05
6,415.00	5.52	102.34	6,403.53	-68.83	261.13	92.12	0.04	0.04	-0.05
6,500.00	5.55	103.36	6,488.13	-70.65	269.12	94.66	0.12	0.03	1.20
6,510.00	5.55	103.48	6,498.08	-70.87	270.06	94.97	0.12	0.03	1.19
6,600.00	5.73	104.12	6,587.65	-72.99	278.65	97.84	0.21	0.20	0.71
6,604.00	5.74	104.15	6,591.63	-73.08	279.04	97.98	0.21	0.20	0.69
6,699.00	5.73	105.29	6,686.15	-75.50	288.22	101.21	0.12	-0.01	1.20
6,700.00	5.73	105.29	6,687.15	-75.52	288.32	101.24	0.00	0.00	0.00
6,794.00	5.61	108.15	6,780.69	-78.19	297.21	104.71	0.33	-0.13	3.04
6,800.00	5.62	108.20	6,786.66	-78.38	297.76	104.94	0.17	0.15	0.84
6,889.00	5.75	108.93	6,875.22	-81.18	306.12	108.49	0.17	0.15	0.82
6,900.00	5.77	108.91	6,886.17	-81.54	307.16	108.94	0.19	0.19	-0.18
6,984.00	5.93	108.76	6,969.73	-84.30	315.27	112.42	0.19	0.19	-0.18
7,000.00	5.85	109.66	6,985.64	-84.85	316.82	113.10	0.75	-0.49	5.60
7,079.00	5.49	114.44	7,064.26	-87.76	324.05	116.66	0.75	-0.46	6.06
7,100.00	5.39	115.21	7,085.16	-88.60	325.86	117.66	0.59	-0.48	3.67
7,173.00	5.05	118.12	7,157.86	-91.57	331.80	121.15	0.59	-0.47	3.99
7,200.00	5.04	118.02	7,184.76	-92.69	333.89	122.46	0.06	-0.05	-0.37
7,268.00	5.00	117.77	7,252.50	-95.47	339.15	125.70	0.06	-0.05	-0.37
7,300.00	4.93	119.77	7,284.38	-96.81	341.57	127.25	0.58	-0.21	6.25
7,363.00	4.82	123.86	7,347.15	-99.63	346.12	130.47	0.58	-0.18	6.49
7,400.00	4.26	125.69	7,384.03	-101.29	348.53	132.35	1.55	-1.50	4.93
7,457.00	3.42	129.65	7,440.90	-103.62	351.56	134.93	1.55	-1.48	6.95
7,500.00	2.90	126.32	7,483.84	-105.08	353.42	136.56	1.29	-1.22	-7.75
7,552.00	2.28	120.27	7,535.78	-106.38	355.38	138.03	1.29	-1.18	-11.63
7,600.00	1.20	127.19	7,583.76	-107.16	356.60	138.92	2.29	-2.25	14.41
7,646.00	0.32	182.51	7,629.76	-107.58	356.98	139.37	2.29	-1.91	120.26
7,700.00	0.31	187.67	7,683.76	-107.88	356.95	139.66	0.05	-0.01	9.55
7,741.00	0.31	191.71	7,724.76	-108.10	356.92	139.88	0.05	-0.01	9.86
7,800.00	0.33	208.67	7,783.75	-108.40	356.80	140.17	0.16	0.03	28.75
7,836.00	0.35	217.74	7,819.75	-108.58	356.69	140.34	0.16	0.06	25.20
7,900.00	0.37	207.80	7,883.75	-108.92	356.47	140.65	0.10	0.03	-15.52
7,931.00	0.38	203.39	7,914.75	-109.10	356.38	140.83	0.10	0.04	-14.24
8,000.00	0.43	211.94	7,983.75	-109.53	356.16	141.23	0.11	0.07	12.39
8,025.00	0.45	214.55	8,008.75	-109.69	356.05	141.38	0.11	0.08	10.43

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)	
8,100.00	0.58	224.96	8,083.75	-110.20	355.61	141.86	0.22	0.18	13.88	
8,120.00	0.62	226.96	8,103.75	-110.35	355.46	141.99	0.22	0.19	10.02	
8,200.00	0.68	217.09	8,183.74	-111.02	354.86	142.60	0.16	0.07	-12.34	
8,214.00	0.69	215.54	8,197.74	-111.15	354.76	142.73	0.16	0.09	-11.04	
8,300.00	0.78	216.15	8,283.73	-112.05	354.12	143.56	0.11	0.11	0.71	
8,309.00	0.79	216.21	8,292.73	-112.15	354.04	143.65	0.11	0.11	0.62	
8,400.00	0.97	221.62	8,383.72	-113.23	353.16	144.65	0.22	0.20	5.94	
8,403.00	0.98	221.76	8,386.72	-113.27	353.12	144.69	0.22	0.21	4.78	
8,498.00	0.90	216.90	8,481.71	-114.47	352.14	145.80	0.12	-0.08	-5.12	
8,500.00	0.90	216.71	8,483.71	-114.50	352.12	145.82	0.19	0.12	-9.44	
8,593.00	1.02	208.94	8,576.69	-115.81	351.28	147.05	0.19	0.13	-8.36	
8,600.00	1.03	209.34	8,583.69	-115.92	351.22	147.15	0.13	0.08	5.78	
8,688.00	1.10	214.07	8,671.68	-117.30	350.36	148.46	0.13	0.08	5.37	
8,700.00	1.14	214.67	8,683.68	-117.50	350.23	148.64	0.35	0.34	5.03	
8,782.00	1.42	217.87	8,765.66	-118.97	349.14	150.01	0.35	0.34	3.90	
8,800.00	1.43	218.47	8,783.65	-119.32	348.86	150.33	0.12	0.08	3.31	
8,877.00	1.50	220.88	8,860.62	-120.84	347.60	151.73	0.12	0.08	3.14	
8,900.00	1.54	219.36	8,883.62	-121.31	347.21	152.16	0.25	0.18	-6.63	
8,972.00	1.68	215.09	8,955.59	-122.92	345.99	153.65	0.25	0.19	-5.92	
9,000.00	1.51	217.88	8,983.58	-123.55	345.52	154.24	0.66	-0.60	9.96	
9,066.00	1.14	227.61	9,049.56	-124.68	344.50	155.27	0.66	-0.56	14.74	
9,100.00	1.04	226.94	9,083.55	-125.12	344.03	155.66	0.31	-0.31	-1.98	
9,161.00	0.85	225.32	9,144.54	-125.81	343.31	156.29	0.31	-0.30	-2.65	
9,200.00	0.89	221.04	9,183.54	-126.24	342.90	156.68	0.19	0.10	-10.97	
9,256.00	0.95	215.54	9,239.53	-126.95	342.35	157.34	0.19	0.11	-9.82	
9,300.00	1.00	215.21	9,283.53	-127.56	341.91	157.90	0.11	0.11	-0.74	
9,350.00	1.05	214.88	9,333.52	-128.29	341.40	158.59	0.11	0.11	-0.67	
9,400.00	1.19	216.51	9,383.51	-129.08	340.83	159.32	0.28	0.27	3.25	
9,445.00	1.31	217.68	9,428.50	-129.86	340.24	160.05	0.28	0.27	2.61	
9,500.00	1.38	214.38	9,483.48	-130.90	339.48	161.02	0.19	0.12	-5.99	
9,540.00	1.43	212.19	9,523.47	-131.72	338.94	161.79	0.19	0.13	-5.49	
9,600.00	1.02	201.50	9,583.46	-132.86	338.35	162.86	0.77	-0.68	-17.82	
9,646.00	0.76	185.97	9,629.45	-133.54	338.17	163.53	0.77	-0.57	-33.75	
9,700.00	1.07	192.11	9,683.45	-134.39	338.02	164.36	0.60	0.57	11.36	
9,740.00	1.30	194.76	9,723.44	-135.19	337.83	165.14	0.60	0.58	6.63	
9,800.00	1.62	204.79	9,783.42	-136.62	337.30	166.51	0.68	0.53	16.71	
9,835.00	1.82	208.95	9,818.40	-137.56	336.83	167.40	0.68	0.58	11.89	
9,900.00	1.84	207.73	9,883.37	-139.38	335.84	169.13	0.07	0.03	-1.88	
9,930.00	1.85	207.17	9,913.35	-140.24	335.40	169.95	0.07	0.03	-1.85	
10,000.00	2.06	209.59	9,983.31	-142.34	334.26	171.93	0.32	0.30	3.46	
10,024.00	2.13	210.31	10,007.30	-143.10	333.82	172.65	0.32	0.30	3.00	
10,100.00	2.41	214.93	10,083.24	-145.63	332.19	175.02	0.44	0.37	6.08	
10,119.00	2.48	215.92	10,102.22	-146.29	331.72	175.64	0.44	0.38	5.22	
10,200.00	2.28	216.42	10,183.15	-149.00	329.74	178.17	0.24	-0.24	0.61	
10,214.00	2.25	216.51	10,197.14	-149.45	329.41	178.58	0.24	-0.24	0.67	
10,300.00	2.38	226.04	10,283.07	-152.04	327.12	180.96	0.47	0.15	11.08	
10,308.00	2.39	226.87	10,291.06	-152.27	326.88	181.16	0.47	0.18	10.38	
10,400.00	2.37	246.46	10,382.98	-154.34	323.74	182.94	0.88	-0.03	21.29	
10,403.00	2.37	247.09	10,385.98	-154.39	323.63	182.98	0.88	0.13	21.06	
10,498.00	2.23	239.67	10,480.91	-156.09	320.22	184.36	0.35	-0.15	-7.81	
10,500.00	2.24	239.50	10,482.90	-156.13	320.15	184.40	0.74	0.66	-8.30	
10,592.00	2.87	233.56	10,574.81	-158.41	316.75	186.36	0.74	0.68	-6.46	
10,600.00	2.91	233.27	10,582.80	-158.65	316.43	186.57	0.55	0.52	-3.62	
10,687.00	3.37	230.59	10,669.67	-161.60	312.68	189.17	0.55	0.53	-3.08	
10,700.00	3.45	230.18	10,682.65	-162.09	312.08	189.60	0.64	0.61	-3.17	

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
10,782.00	3.95	227.96	10,764.48	-165.56	308.09	192.70	0.64	0.61	-2.70
10,800.00	3.82	226.38	10,782.44	-166.39	307.20	193.44	0.93	-0.72	-8.76
10,876.00	3.31	218.42	10,858.29	-169.85	304.00	196.61	0.93	-0.67	-10.48
10,900.00	3.32	217.96	10,882.25	-170.95	303.14	197.62	0.12	0.05	-1.92
10,971.00	3.36	216.62	10,953.13	-174.24	300.63	200.67	0.12	0.05	-1.89
11,000.00	3.33	215.90	10,982.08	-175.60	299.63	201.94	0.18	-0.11	-2.48
11,065.00	3.26	214.24	11,046.97	-178.66	297.49	204.79	0.18	-0.11	-2.56
11,100.00	3.35	212.40	11,081.91	-180.35	296.38	206.37	0.40	0.27	-5.27
11,160.00	3.52	209.47	11,141.80	-183.43	294.53	209.27	0.40	0.28	-4.88
11,200.00	3.46	205.86	11,181.73	-185.59	293.40	211.32	0.57	-0.14	-9.03
11,255.00	3.41	200.73	11,236.63	-188.61	292.10	214.21	0.57	-0.10	-9.33
11,300.00	3.22	203.31	11,281.56	-191.02	291.13	216.53	0.54	-0.43	5.73
11,350.00	3.01	206.55	11,331.48	-193.49	289.98	218.88	0.54	-0.41	6.49
11,378.00	3.03	208.24	11,359.44	-194.80	289.30	220.12	0.33	0.07	6.04
11,400.00	3.03	208.24	11,381.41	-195.82	288.75	221.09	0.00	0.00	0.00
11,477.70	3.03	208.24	11,459.00	-199.44	286.81	224.52	0.00	0.00	0.00
11,500.00	4.52	186.78	11,481.26	-200.83	286.43	225.87	9.10	6.68	-96.25
11,600.00	13.12	164.41	11,580.00	-215.71	289.02	240.92	9.10	8.60	-22.37
11,700.00	22.12	159.84	11,675.22	-244.37	298.58	270.33	9.10	9.00	-4.57
11,800.00	31.18	157.84	11,764.50	-286.10	314.87	313.36	9.10	9.06	-2.00
11,900.00	40.25	156.67	11,845.61	-339.85	337.48	368.93	9.10	9.07	-1.17
12,000.00	49.33	155.87	11,916.51	-404.27	365.83	435.64	9.10	9.08	-0.80
12,100.00	58.42	155.27	11,975.40	-477.73	399.22	511.82	9.10	9.09	-0.60
12,200.00	67.51	154.77	12,020.80	-558.38	436.81	595.53	9.10	9.09	-0.50
12,300.00	76.60	154.34	12,051.58	-644.19	477.65	684.68	9.10	9.09	-0.43
12,400.00	85.69	153.94	12,066.95	-733.01	520.70	777.03	9.10	9.09	-0.40
12,435.28	88.90	153.80	12,068.61	-764.64	536.22	809.93	9.10	9.09	-0.39
12,500.00	88.90	154.77	12,069.86	-822.94	564.30	870.53	1.50	-0.01	1.50
12,600.00	88.89	156.27	12,071.79	-913.94	605.73	964.89	1.50	-0.01	1.50
12,700.00	88.89	157.77	12,073.73	-1,005.98	644.76	1,060.08	1.50	0.00	1.50
12,800.00	88.88	159.27	12,075.68	-1,099.02	681.36	1,156.04	1.50	0.00	1.50
12,900.00	88.88	160.77	12,077.63	-1,192.98	715.52	1,252.70	1.50	0.00	1.50
13,000.00	88.88	162.27	12,079.59	-1,287.80	747.21	1,350.00	1.50	0.00	1.50
13,100.00	88.87	163.77	12,081.56	-1,383.42	776.40	1,447.87	1.50	0.00	1.50
13,200.00	88.87	165.27	12,083.52	-1,479.78	803.08	1,546.24	1.50	0.00	1.50
13,300.00	88.87	166.77	12,085.49	-1,576.79	827.23	1,645.04	1.50	0.00	1.50
13,400.00	88.87	168.27	12,087.46	-1,674.41	848.83	1,744.20	1.50	0.00	1.50
13,500.00	88.87	169.77	12,089.42	-1,772.56	867.86	1,843.67	1.50	0.00	1.50
13,600.00	88.88	171.27	12,091.39	-1,871.17	884.32	1,943.37	1.50	0.00	1.50
13,700.00	88.88	172.77	12,093.34	-1,970.18	898.20	2,043.23	1.50	0.00	1.50
13,800.00	88.88	174.27	12,095.30	-2,069.52	909.47	2,143.18	1.50	0.00	1.50
13,900.00	88.89	175.78	12,097.24	-2,169.13	918.14	2,243.16	1.50	0.00	1.50
14,000.00	88.89	177.28	12,099.18	-2,268.92	924.20	2,343.09	1.50	0.01	1.50
14,100.00	88.90	178.78	12,101.11	-2,368.84	927.65	2,442.91	1.50	0.01	1.50
14,153.91	88.90	179.58	12,102.14	-2,422.73	928.42	2,496.65	1.50	0.01	1.50
14,200.00	88.90	179.58	12,103.02	-2,468.81	928.75	2,542.58	0.00	0.00	0.00
14,300.00	88.90	179.58	12,104.94	-2,568.79	929.48	2,642.22	0.00	0.00	0.00
14,400.00	88.90	179.58	12,106.85	-2,668.77	930.20	2,741.85	0.00	0.00	0.00
14,500.00	88.90	179.58	12,108.77	-2,768.75	930.93	2,841.49	0.00	0.00	0.00
14,600.00	88.90	179.58	12,110.69	-2,868.73	931.65	2,941.12	0.00	0.00	0.00
14,700.00	88.90	179.58	12,112.60	-2,968.71	932.38	3,040.76	0.00	0.00	0.00
14,800.00	88.90	179.58	12,114.52	-3,068.69	933.10	3,140.40	0.00	0.00	0.00
14,900.00	88.90	179.58	12,116.43	-3,168.67	933.83	3,240.03	0.00	0.00	0.00
15,000.00	88.90	179.58	12,118.35	-3,268.65	934.55	3,339.67	0.00	0.00	0.00
15,100.00	88.90	179.58	12,120.26	-3,368.62	935.28	3,439.31	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
15,200.00	88.90	179.58	12,122.18	-3,468.60	936.01	3,538.94	0.00	0.00	0.00
15,300.00	88.90	179.58	12,124.09	-3,568.58	936.73	3,638.58	0.00	0.00	0.00
15,400.00	88.90	179.58	12,126.01	-3,668.56	937.46	3,738.21	0.00	0.00	0.00
15,500.00	88.90	179.58	12,127.93	-3,768.54	938.18	3,837.85	0.00	0.00	0.00
15,600.00	88.90	179.58	12,129.84	-3,868.52	938.91	3,937.49	0.00	0.00	0.00
15,700.00	88.90	179.58	12,131.76	-3,968.50	939.63	4,037.12	0.00	0.00	0.00
15,800.00	88.90	179.58	12,133.67	-4,068.48	940.36	4,136.76	0.00	0.00	0.00
15,900.00	88.90	179.58	12,135.59	-4,168.46	941.08	4,236.40	0.00	0.00	0.00
16,000.00	88.90	179.58	12,137.50	-4,268.44	941.81	4,336.03	0.00	0.00	0.00
16,100.00	88.90	179.58	12,139.42	-4,368.41	942.54	4,435.67	0.00	0.00	0.00
16,200.00	88.90	179.58	12,141.34	-4,468.39	943.26	4,535.30	0.00	0.00	0.00
16,300.00	88.90	179.58	12,143.25	-4,568.37	943.99	4,634.94	0.00	0.00	0.00
16,400.00	88.90	179.58	12,145.17	-4,668.35	944.71	4,734.58	0.00	0.00	0.00
16,500.00	88.90	179.58	12,147.08	-4,768.33	945.44	4,834.21	0.00	0.00	0.00
16,600.00	88.90	179.58	12,149.00	-4,868.31	946.16	4,933.85	0.00	0.00	0.00
16,700.00	88.90	179.58	12,150.91	-4,968.29	946.89	5,033.49	0.00	0.00	0.00
16,800.00	88.90	179.58	12,152.83	-5,068.27	947.61	5,133.12	0.00	0.00	0.00
16,900.00	88.90	179.58	12,154.75	-5,168.25	948.34	5,232.76	0.00	0.00	0.00
17,000.00	88.90	179.58	12,156.66	-5,268.23	949.06	5,332.39	0.00	0.00	0.00
17,100.00	88.90	179.58	12,158.58	-5,368.20	949.79	5,432.03	0.00	0.00	0.00
17,200.00	88.90	179.58	12,160.49	-5,468.18	950.52	5,531.67	0.00	0.00	0.00
17,300.00	88.90	179.58	12,162.41	-5,568.16	951.24	5,631.30	0.00	0.00	0.00
17,400.00	88.90	179.58	12,164.32	-5,668.14	951.97	5,730.94	0.00	0.00	0.00
17,500.00	88.90	179.58	12,166.24	-5,768.12	952.69	5,830.58	0.00	0.00	0.00
17,600.00	88.90	179.58	12,168.15	-5,868.10	953.42	5,930.21	0.00	0.00	0.00
17,700.00	88.90	179.58	12,170.07	-5,968.08	954.14	6,029.85	0.00	0.00	0.00
17,800.00	88.90	179.58	12,171.99	-6,068.06	954.87	6,129.48	0.00	0.00	0.00
17,900.00	88.90	179.58	12,173.90	-6,168.04	955.59	6,229.12	0.00	0.00	0.00
18,000.00	88.90	179.58	12,175.82	-6,268.02	956.32	6,328.76	0.00	0.00	0.00
18,100.00	88.90	179.58	12,177.73	-6,368.00	957.04	6,428.39	0.00	0.00	0.00
18,200.00	88.90	179.58	12,179.65	-6,467.97	957.77	6,528.03	0.00	0.00	0.00
18,300.00	88.90	179.58	12,181.56	-6,567.95	958.50	6,627.67	0.00	0.00	0.00
18,400.00	88.90	179.58	12,183.48	-6,667.93	959.22	6,727.30	0.00	0.00	0.00
18,500.00	88.90	179.58	12,185.40	-6,767.91	959.95	6,826.94	0.00	0.00	0.00
18,600.00	88.90	179.58	12,187.31	-6,867.89	960.67	6,926.57	0.00	0.00	0.00
18,700.00	88.90	179.58	12,189.23	-6,967.87	961.40	7,026.21	0.00	0.00	0.00
18,800.00	88.90	179.58	12,191.14	-7,067.85	962.12	7,125.85	0.00	0.00	0.00
18,900.00	88.90	179.58	12,193.06	-7,167.83	962.85	7,225.48	0.00	0.00	0.00
19,000.00	88.90	179.58	12,194.97	-7,267.81	963.57	7,325.12	0.00	0.00	0.00
19,100.00	88.90	179.58	12,196.89	-7,367.79	964.30	7,424.76	0.00	0.00	0.00
19,200.00	88.90	179.58	12,198.81	-7,467.76	965.02	7,524.39	0.00	0.00	0.00
19,300.00	88.90	179.58	12,200.72	-7,567.74	965.75	7,624.03	0.00	0.00	0.00
19,400.00	88.90	179.58	12,202.64	-7,667.72	966.48	7,723.66	0.00	0.00	0.00
19,500.00	88.90	179.58	12,204.55	-7,767.70	967.20	7,823.30	0.00	0.00	0.00
19,600.00	88.90	179.58	12,206.47	-7,867.68	967.93	7,922.94	0.00	0.00	0.00
19,700.00	88.90	179.58	12,208.38	-7,967.66	968.65	8,022.57	0.00	0.00	0.00
19,800.00	88.90	179.58	12,210.30	-8,067.64	969.38	8,122.21	0.00	0.00	0.00
19,900.00	88.90	179.58	12,212.21	-8,167.62	970.10	8,221.85	0.00	0.00	0.00
20,000.00	88.90	179.58	12,214.13	-8,267.60	970.83	8,321.48	0.00	0.00	0.00
20,100.00	88.90	179.58	12,216.05	-8,367.58	971.55	8,421.12	0.00	0.00	0.00
20,200.00	88.90	179.58	12,217.96	-8,467.55	972.28	8,520.75	0.00	0.00	0.00
20,300.00	88.90	179.58	12,219.88	-8,567.53	973.00	8,620.39	0.00	0.00	0.00
20,400.00	88.90	179.58	12,221.79	-8,667.51	973.73	8,720.03	0.00	0.00	0.00
20,500.00	88.90	179.58	12,223.71	-8,767.49	974.46	8,819.66	0.00	0.00	0.00
20,600.00	88.90	179.58	12,225.62	-8,867.47	975.18	8,919.30	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
20,700.00	88.90	179.58	12,227.54	-8,967.45	975.91	9,018.94	0.00	0.00	0.00
20,800.00	88.90	179.58	12,229.46	-9,067.43	976.63	9,118.57	0.00	0.00	0.00
20,900.00	88.90	179.58	12,231.37	-9,167.41	977.36	9,218.21	0.00	0.00	0.00
21,000.00	88.90	179.58	12,233.29	-9,267.39	978.08	9,317.84	0.00	0.00	0.00
21,100.00	88.90	179.58	12,235.20	-9,367.37	978.81	9,417.48	0.00	0.00	0.00
21,200.00	88.90	179.58	12,237.12	-9,467.34	979.53	9,517.12	0.00	0.00	0.00
21,300.00	88.90	179.58	12,239.03	-9,567.32	980.26	9,616.75	0.00	0.00	0.00
21,400.00	88.90	179.58	12,240.95	-9,667.30	980.98	9,716.39	0.00	0.00	0.00
21,500.00	88.90	179.58	12,242.87	-9,767.28	981.71	9,816.03	0.00	0.00	0.00
21,600.00	88.90	179.58	12,244.78	-9,867.26	982.44	9,915.66	0.00	0.00	0.00
21,700.00	88.90	179.58	12,246.70	-9,967.24	983.16	10,015.30	0.00	0.00	0.00
21,800.00	88.90	179.58	12,248.61	-10,067.22	983.89	10,114.93	0.00	0.00	0.00
21,900.00	88.90	179.58	12,250.53	-10,167.20	984.61	10,214.57	0.00	0.00	0.00
22,000.00	88.90	179.58	12,252.44	-10,267.18	985.34	10,314.21	0.00	0.00	0.00
22,100.00	88.90	179.58	12,254.36	-10,367.16	986.06	10,413.84	0.00	0.00	0.00
22,200.00	88.90	179.58	12,256.27	-10,467.13	986.79	10,513.48	0.00	0.00	0.00
22,300.00	88.90	179.58	12,258.19	-10,567.11	987.51	10,613.12	0.00	0.00	0.00
22,400.00	88.90	179.58	12,260.11	-10,667.09	988.24	10,712.75	0.00	0.00	0.00
22,500.00	88.90	179.58	12,262.02	-10,767.07	988.96	10,812.39	0.00	0.00	0.00
22,600.00	88.90	179.58	12,263.94	-10,867.05	989.69	10,912.02	0.00	0.00	0.00
22,654.97	88.90	179.58	12,264.99	-10,922.01	990.09	10,966.79	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hi/miss target									
- Shape									
FTP (Stack Cats	0.00	0.00	12,024.35	-479.87	913.54	498,974.87	758,658.25	32.369787	-103.629440
- plan misses target center by 465.33ft at 12337.62ft MD (12059.20 TVD, -677.38 N, 493.64 E)									
- Point									
PBHL (Stack Cats	0.00	0.00	12,264.99	-10,922.01	990.09	488,533.14	758,734.80	32.341085	-103.629414
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,018.02	1,018.00	RUSTLER				
1,683.15	1,683.00	SALADO				
3,479.16	3,478.00	CASTILE				
4,899.95	4,894.00	DELAWARE				
4,989.24	4,983.00	BELL CANYON				
5,791.94	5,783.00	CHERRY CANYON				
7,106.87	7,092.00	BRUSHY CANYON				
8,749.34	8,733.00	BONE SPRING				
9,853.61	9,837.00	BONE SPRING 1ST				
10,539.13	10,522.00	BONE SPRING 2ND				
11,668.76	11,646.00	BONE SPRING 3RD				
12,095.45	11,973.00	WOLFCAMP				

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Stack Cats 25_36 Fed Com 32H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3782.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3782.00ft
Site:	Stack Cats 25_36	North Reference:	Grid
Well:	Stack Cats 25_36 Fed Com 32H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,378.00	11,359.44	-194.80	289.30	Tie In to Surveys
11,477.70	11,459.00	-199.44	286.81	KOP, Build & Turn 9.1°/100'
12,435.28	12,068.61	-764.65	536.22	Landing Point
14,153.91	12,102.14	-2,422.73	928.42	Hold
22,654.97	12,264.99	-10,922.01	990.09	TD at 22654.97' MD

Oxy USA Inc. - Stack Cats 25_36 Fed Com 32H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	12265	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22655	Deepest Expected Fresh Water (ft):	1018

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	1018	1018	
Salado	1683	1683	Salt
Castile	3479	3478	Salt
Delaware	4900	4894	Oil/Gas/Brine
Bell Canyon	4989	4983	Oil/Gas/Brine
Cherry Canyon	5792	5783	Oil/Gas/Brine
Brushy Canyon	7107	7092	Losses
Bone Spring	8749	8733	Oil/Gas
Bone Spring 1st	9854	9837	Oil/Gas
Bone Spring 2nd	10539	10522	Oil/Gas
Bone Spring 3rd	11669	11646	Oil/Gas
Wolfcamp	12095	11973	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	1078	0	1078	10.75	45.5	J-55	BTC
Intermediate	9.875	0	11378	0	11359	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22655	0	12265	5.5	20	P-110	DQX

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

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.125	1.2	1.4	1.4

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	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
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 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

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	902	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	550	1.65	13.2	5%	7,357	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1133	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	889	1.38	13.2	25%	10,878	Circulate	Class H+Ret., Disper., Salt

Offline Cementing

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	11359
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	100% of working pressure	12265
		10M	Blind Ram		✓	250 psi / 10000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

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.

	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.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	1078	0	1078	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1078	11378	1078	11359	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11378	22655	11359	12265	Water-Based or Oil-Based Mud	9.5 - 12.5	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
---	--------------------------------

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
Yes	CBL
Yes	Mud log
No	PEX

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7973 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	179°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

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 3 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: 1703 bbls

Attachments

- ☒ Directional Plan
- ☒ H2S Contingency Plan
- ☒ Flex III Attachments
- ☒ Spudder Rig Attachment
- ☒ Premium Connection Specs

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 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 Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 220159

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 220159
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/5/2023