

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA Inc P.O. BOX 50250 Midland, TX 79710		² OGRID Number 16696
⁴ API Number 30-015-43290		³ Reason for Filing Code/ Effective Date Test Allowable - 2/2017
⁵ Pool Name Pierce Crossing Bone Spring, East		⁶ Pool Code 96473
⁷ Property Code: 315098	⁸ Property Name: Cedar Canyon 23 Federal Com	
		⁹ Well Number: 3H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	22	24S	29E		2540	South	200	East	Eddy

¹¹ Bottom Hole Location **Top Perf- 2124 FNL 359 FEL** **Bottom Perf- 2149 FNL 2320 FWL**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	24	24S	29E		2151	North	2468	West	Eddy

¹² Lse Code F	¹³ Producing Method Code : F	¹⁴ Gas Connection Date: TBD	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
239284	OCCIDENTAL ENERGY TRANSPORTATION (BRIDGER LLC)	O
151618	ENTERPRISE FIELD SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 10/26/16	²² Ready Date 1/26/17	²³ TD 16430'M 9010'V	²⁴ PBDT 16368'M 9009'V	²⁵ Perforations 9016-16282'	²⁶ DHC, MC
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4"	²⁹ Depth Set 482'	³⁰ Sacks Cement 382		
9-7/8"	7-5/8"	8221'	3238		
6-3/4"	5-1/2" X 4-1/2"	16419'	830		

V. Well Test Data

³¹ Date New Oil 1/30/17	³² Gas Delivery Date TBD	³³ Test Date 2/1/17	³⁴ Test Length 24 hrs.	³⁵ Tbg. Pressure ---	³⁶ Csg. Pressure 1060
³⁷ Choke Size 29/64	³⁸ Oil 716	³⁹ Water 1331	⁴⁰ Gas 1603	⁴¹ Test Method F	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Jana Mendiola

Title:
Regulatory Coordinator

E-mail Address:
janalyn_mendiola@oxy.com

Date:
2/1/17

Phone:
432-685-5936

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Bayliss

DII SUPER

01 FEB 17

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Aramis, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-0720
District III
1000 Rio Blanco 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) 476-3463

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
(As Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43290	Pool Code 96473	Pool Name Pierce Crossing Bone Spring, East
Property Code 315098	Property Name CEDAR CANYON "23" FEDERAL	
OGRID No. 16696	Operator Name OXY USA INC.	Well Number 3H Elevation 2957.1'

Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
I	22	24 SOUTH	29 EAST, N.M.P.M.		2540'	SOUTH	200'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
F	24	24 SOUTH	29 EAST, N.M.P.M.		2550' 2159'	NORTH	2470' 2476'	WEST	EDDY
Dedicated Acres 240	Joint or Infill Yes	Consolidation Code	Order No.	BP- 2149 FNL 2320 FNL TP- 2124 FNL 359 FEL					

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.

						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 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 2/1/17 Date Jana Mendiola Printed Name jana.mendiola@oxy.com E-mail Address
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was derived from a series of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <i>[Signature]</i> Date of Survey 15079 OCTOBER 27, 2016 Professional Surveyor						15079 Certificate Number <i>[Signature]</i> 1/20/2015 Date 15079 Certificate Number

WO# 151027WL-a-XY (KA)

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

November 24, 2016

OXY USA INC.

22, 24S, 29E, EDDY NM
N 32.20250 W -103.96391

Re:

CLIENT: OXY USA INC.
WELL: CEDAR CANYON 23 FEDERAL 3H
FIELD: PIERCE CROSSING BONE SPRING, E.

RIG: H&P 639
COUNTY: EDDY
API NO: 30-015-43290
JOB NO: 16MLD2123

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Kalu Chibueze Uga FS	CEDAR CANYON 23 FEDERAL 3H Original Hole	490.00 Ft to 16388.00 Ft	November 10, 2016 to November 22, 2016	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Cody Nelms
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
22, 24S, 29E, EDDY NM
N 32.20250 W -103.96391

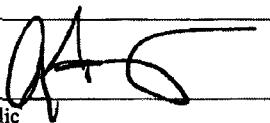
I, Kalu Chibueze Uga certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 10, 2016 through November 22, 2016, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 490.00 feet to a depth of 16388.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA INC. for the CEDAR CANYON 23 FEDERAL 3H Well (Original Hole) API No. 30-015-43290 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Kalu Chibueze Uga
FS

ON BEHALF OF
KALU UGA

Subscribed and Sworn to before me this 30th day of November (month) 2016 (yr)

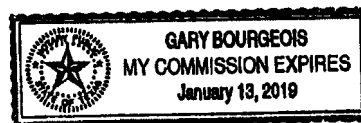
My Commission expires:



Notary Public

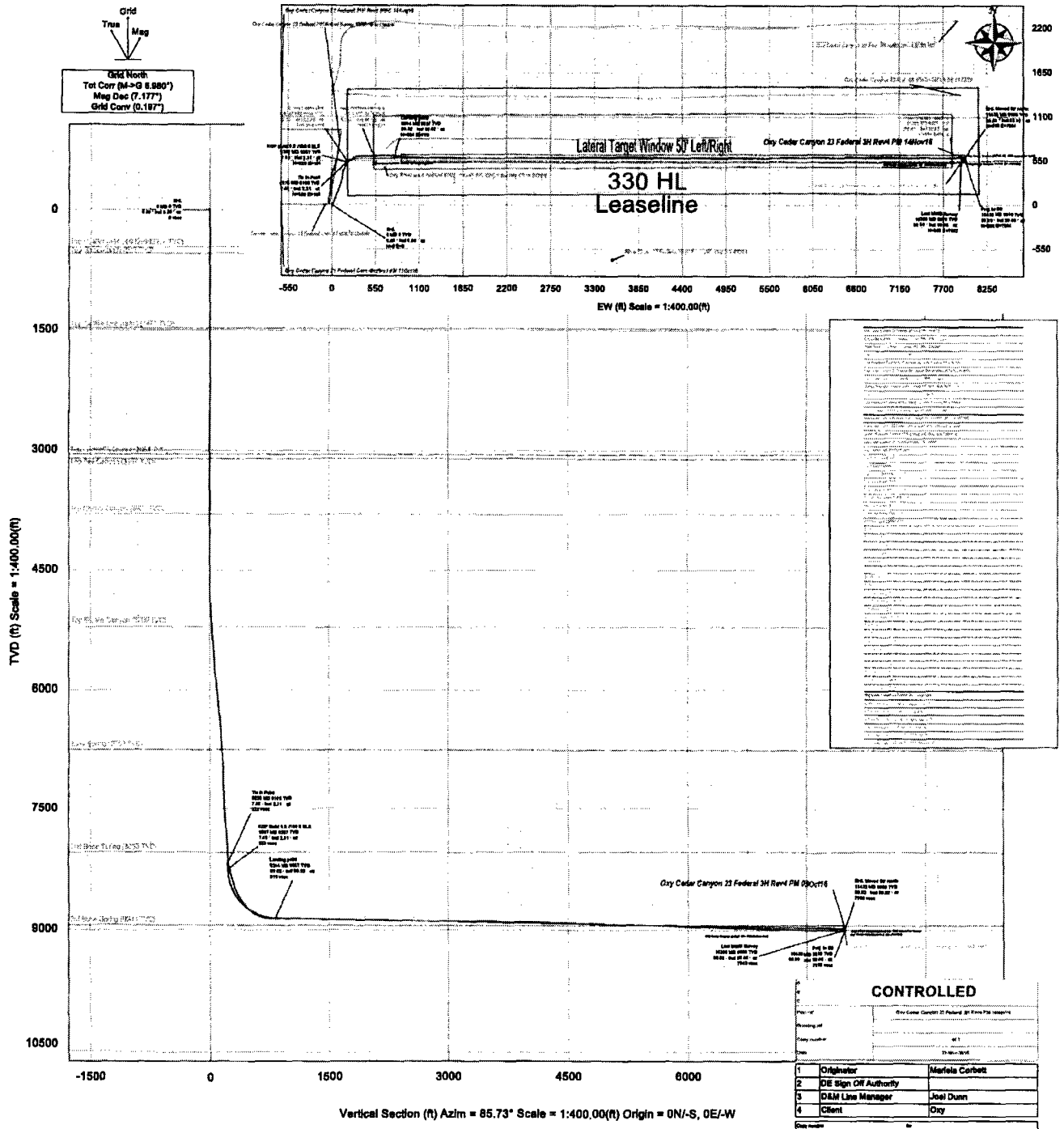
(signature)

MIDLAND - TEXAS
(County State)



Borehole: Oxy Cedar Canyon 23 Federal 3H - Orig. Borehole		Well: Oxy Cedar Canyon 23 Federal 3H	Field: NM Eddy County (NAD 27)	Structure: Oxy Cedar Canyon 23 Federal 3H
Survey & Map/Info Parameters	Dr: 02.54P PE: 48165.33mT Mag Dec: 7.177°	Date: 14-Nov-2016 Gravity PE: 986.427m/s (9.80665 m/s²)	Surface Location Lat: N 32 12 3.31 Long: W 103 57 58.90	Well Location MADIT New Mexico State Plant, Eastern Zone, US Post Wellbore: 437565.79US Sealing: 814265.80US Grid Elev: 6.196P Scale Plot: 6.800V3004

Critical Points														
Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Sub-Sea TVD	VS (ft)	NS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (ftUS)	Northing (ftUS)	DLS (°/100ft)	Tool Face (deg)
Tie in Point	8235.00	7.49	2.31	8185.20	5201.60	222.17	529.78	183.24	N 32 12 14.248	W 103 57 47.938	614449.10	438116.44	0.00	0.00
KOP Build 9.5°/100 ft DLS	8307.42	7.49	2.31	8257.00	5273.40	223.25	539.22	183.62	N 32 12 14.341	W 103 57 47.933	614449.48	438125.87	0.00	93.21
	8780.34	45.00	88.00	8680.58	5696.98	403.17	577.85	361.15	N 32 12 14.718	W 103 57 45.865	614627.00	438164.51	9.50	2.76
Landing point	9244.10	89.02	89.92	8857.28	5873.68	818.93	584.22	777.59	N 32 12 14.766	W 103 57 41.019	615043.41	438170.88	9.50	0.00
3rd Bone Spring	14339.83	89.02	89.92	8944.00	5960.40	5900.32	591.56	5872.57	N 32 12 14.661	W 103 56 41.724	620138.00	438178.21	0.00	0.00
BHL Moved 50' North	16431.72	89.02	89.92	8979.60	5996.00	7986.32	594.57	7964.16	N 32 12 14.615	W 103 56 17.383	622229.42	438181.22	0.00	



Oxy Cedar Canyon 23 Federal 3H - Actual Survey MWD Off To 16430 ftMD

Survey Geodetic Report

(Def Survey)



Report Date: November 23, 2016 - 08:58 AM
 Client: OXY
 Field: NM Eddy County (NAD 27)
 Structure / Slot: Oxy Cedar Canyon 23 Federal 3H / Oxy Cedar Canyon 23 Federal 3H
 Well: Oxy Cedar Canyon 23 Federal 3H
 Borehole: Oxy Cedar Canyon 23 Federal 3H - Ong. Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Cedar Canyon 23 Federal 3H - Actual Survey MWD Off To 16430 ftMD
 Survey Date: November 08, 2016
 Tert / AHD / DDI / ERD Ratio: 225.308 * / 8375.032 ft / 6.537 / 0.929
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 9.01178" W 103° 57' 50.09152"
 Location Grid N/E Y/X: N 437588.700 NUS E 614285.880 NUS
 CRS Grid Convergence Angle: 0.1969 °
 Grid Scale Factor: 0.9992404
 Version / Patch: 2.10.254.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 85.730 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 2983.600 ft above MSL
 Seabed / Ground Elevation: 2957.100 ft above MSL
 Magnetic Declination: 7.178 °
 Total Gravity Field Strength: 998.4874mgN (8 80685 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48187.117 nT
 Magnetic Dip Angle: 80.049 °
 Declination Date: November 08, 2016
 Magnetic Declination Model: HDGM 2016
 North Reference: Grid North
 Grid Convergence Used: 0.1969 °
 Total Corr Mag North-Grid North: 6.9815 °
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL RKB	0.00	0.00	0.00	0.00	-2883.60	0.00	0.00	0.00	N/A	437588.70	614265.88	N 32 12 9.01	W 103 57 50.06
	26.80	0.00	0.00	26.80	-2957.10	0.00	0.00	0.00	0.00	437588.70	614265.88	N 32 12 9.01	W 103 57 50.09
	490.00	0.33	164.40	490.00	-2493.60	0.26	-1.29	0.36	0.07	437585.41	614286.24	N 32 12 9.00	W 103 57 50.09
	599.00	0.09	283.93	599.00	-2384.60	0.24	-1.57	0.36	0.35	437585.13	614286.24	N 32 12 9.00	W 103 57 50.09
	780.00	0.11	333.84	780.00	-2203.60	0.04	-1.38	0.15	0.05	437585.32	614286.03	N 32 12 9.00	W 103 57 50.09
	961.00	0.07	292.03	961.00	-2022.60	-0.12	-1.18	-0.03	0.04	437585.52	614265.85	N 32 12 9.00	W 103 57 50.09
	1051.00	0.11	242.38	1051.00	-1832.60	-0.25	-1.20	-0.16	0.09	437585.50	614265.72	N 32 12 9.00	W 103 57 50.09
	1145.00	0.09	206.87	1145.00	-1632.60	-0.37	-1.31	-0.28	0.06	437585.39	614265.80	N 32 12 9.00	W 103 57 50.09
	1239.00	0.07	121.24	1239.00	-1744.60	-0.37	-1.40	-0.28	0.12	437585.30	614265.82	N 32 12 9.00	W 103 57 50.09
	1333.00	0.09	195.41	1333.00	-1650.60	-0.35	-1.50	-0.24	0.10	437585.20	614265.84	N 32 12 9.00	W 103 57 50.09
	1427.00	0.09	102.58	1427.00	-1556.60	-0.30	-1.59	-0.18	0.14	437585.11	614265.70	N 32 12 9.00	W 103 57 50.09
	1616.00	0.13	357.04	1616.00	-1367.60	-0.15	-1.41	-0.05	0.09	437585.29	614265.83	N 32 12 9.00	W 103 57 50.09
	1710.00	0.15	281.63	1710.00	-1273.60	-0.27	-1.32	-0.18	0.22	437585.38	614265.70	N 32 12 9.00	W 103 57 50.09
	1898.00	0.11	285.05	1898.00	-1085.60	-0.70	-1.37	-0.60	0.02	437585.33	614265.28	N 32 12 9.00	W 103 57 50.10
	1992.00	0.11	207.65	1991.99	-991.61	-0.64	-1.46	-0.73	0.11	437585.24	614265.15	N 32 12 9.00	W 103 57 50.10
	2086.00	0.07	328.83	2085.99	-897.61	-0.91	-1.49	-0.80	0.17	437585.21	614265.06	N 32 12 9.00	W 103 57 50.10
	2181.00	0.07	355.06	2180.99	-802.61	-0.94	-1.38	-0.84	0.03	437585.32	614265.04	N 32 12 9.00	W 103 57 50.10
	2275.00	0.13	115.67	2274.99	-708.61	-0.85	-1.37	-0.75	0.19	437585.33	614265.13	N 32 12 9.00	W 103 57 50.10
	2369.00	0.07	208.88	2368.99	-614.61	-0.79	-1.46	-0.68	0.16	437585.24	614265.20	N 32 12 9.00	W 103 57 50.10
	2464.00	0.11	303.17	2463.99	-519.61	-0.89	-1.47	-0.78	0.14	437585.23	614265.10	N 32 12 9.00	W 103 57 50.10
	2558.00	0.04	17.12	2557.99	-425.61	-0.95	-1.38	-0.85	0.11	437585.32	614265.03	N 32 12 9.00	W 103 57 50.10
	2652.00	0.04	248.84	2651.99	-331.61	-0.97	-1.37	-0.87	0.08	437585.33	614265.01	N 32 12 9.00	W 103 57 50.10
	2747.00	0.11	167.83	2746.99	-236.61	-0.99	-1.47	-0.88	0.12	437585.23	614265.00	N 32 12 9.00	W 103 57 50.10
	2841.00	0.04	65.62	2840.99	-142.61	-0.94	-1.54	-0.83	0.13	437585.16	614265.05	N 32 12 9.00	W 103 57 50.10
	2935.00	0.35	348.16	2934.99	-48.61	-0.95	-1.25	-0.86	0.37	437585.45	614265.02	N 32 12 9.00	W 103 57 50.10
	3029.00	0.20	355.22	3028.99	45.39	-0.99	-0.80	-0.83	0.18	437585.90	614264.95	N 32 12 9.00	W 103 57 50.10
	3123.00	0.09	295.82	3122.99	139.39	-1.06	-0.61	-1.01	0.18	437586.09	614264.87	N 32 12 9.01	W 103 57 50.10
	3217.00	0.07	25.65	3216.99	233.39	-1.09	-0.52	-1.06	0.12	437586.16	614264.82	N 32 12 9.01	W 103 57 50.10
	3312.00	0.07	335.06	3311.99	328.39	-1.08	-0.42	-1.06	0.08	437586.28	614264.82	N 32 12 9.01	W 103 57 50.10
	3405.00	0.06	299.34	3404.99	421.39	-1.14	-0.34	-1.12	0.04	437586.36	614264.76	N 32 12 9.01	W 103 57 50.10
	3594.00	0.11	43.90	3593.99	810.39	-1.09	-0.16	-1.08	0.07	437586.54	614264.80	N 32 12 9.01	W 103 57 50.10
	3688.00	0.09	3.48	3687.99	704.39	-1.01	-0.02	-1.01	0.08	437586.66	614264.87	N 32 12 9.01	W 103 57 50.10
	3678.00	0.04	148.76	3675.99	592.39	-0.96	0.07	-0.97	0.07	437586.77	614264.91	N 32 12 9.01	W 103 57 50.10
	3970.00	0.09	241.85	3969.99	986.39	-1.02	0.00	-1.02	0.11	437586.70	614264.86	N 32 12 9.01	W 103 57 50.10
	4065.00	0.11	82.19	4064.99	1081.39	-1.00	0.01	-1.00	0.21	437586.71	614264.88	N 32 12 9.01	W 103 57 50.10
	4159.00	0.07	298.97	4158.99	1175.39	-0.97	0.08	-0.98	0.17	437586.78	614264.90	N 32 12 9.01	W 103 57 50.10
	4253.00	0.07	72.18	4252.99	1269.39	-0.96	0.13	-0.97	0.14	437586.83	614264.91	N 32 12 9.01	W 103 57 50.10
	4348.00	0.09	210.15	4347.99	1364.39	-0.94	0.08	-0.96	0.16	437586.78	614264.93	N 32 12 9.01	W 103 57 50.10
	4442.00	0.09	108.55	4441.99	1458.39	-0.92	-0.01	-0.92	0.15	437586.86	614264.96	N 32 12 9.01	W 103 57 50.10
	4536.00	0.04	254.24	4535.99	1552.39	-0.88	-0.04	-0.88	0.13	437586.88	614265.00	N 32 12 9.01	W 103 57 50.10
	4630.00	0.09	202.92	4629.99	1646.39	-0.95	-0.11	-0.94	0.08	437586.59	614264.94	N 32 12 9.01	W 103 57 50.10
	4725.00	0.33	35.81	4724.99	1741.39	-0.81	0.04	-0.81	0.44	437586.74	614265.07	N 32 12 9.01	W 103 57 50.10
	4819.00	1.89	42.51	4818.97	1835.37	0.50	1.40	0.39	1.66	437586.10	614266.27	N 32 12 9.03	W 103 57 50.09
	4913.00	3.82	39.29	4912.85	1929.25	3.79	4.67	3.43	2.06	437591.67	614269.31	N 32 12 9.06	W 103 57 50.05
	5008.00	5.63	36.95	5007.52	2023.92	9.18	11.04	8.36	1.91	437597.74	614274.24	N 32 12 9.12	W 103 57 49.99
	5102.00	6.89	34.82	5100.95	2117.35	15.92	19.33	14.52	1.52	437806.02	614280.40	N 32 12 9.20	W 103 57 49.92
	5196.00	7.56	28.87	5194.20	2210.80	22.91	29.44	20.78	1.00	437816.13	614286.85	N 32 12 9.30	W 103 57 49.85
	5290.00	8.17	24.48	5287.31	2303.71	29.50	40.93	25.63	0.91	437827.63	614292.40	N 32 12 9.42	W 103 57 49.78
	5385.00	9.54	21.98	5381.18	2397.56	36.23	54.38	32.27	1.50	437841.07	614298.15	N 32 12 9.55	W 103 57 49.71
	5479.00	11.87	17.88	5473.57	2489.97	43.25	70.65	38.10	2.40	437857.35	614303.98	N 32 12 9.71	W 103 57 49.65
	5573.00	11.30	14.50	5565.89	2582.09	49.80	88.62	43.32	0.81	437875.31	614309.20	N 32 12 9.89	W 103 57 49.58
	5667.00	11.67	14.61	5657.80	2674.20	55.84	106.73	48.03	0.39	437893.42	614313.90	N 32 12 10.07	W 103 57 49.53
	5762.00	11.82	17.85	5750.85	2767.25	62.52	125.15	53.35	0.65	437711.84	614319.23	N 32 12 10.25	W 103 57 49.47
	5858.00	11.41	22.71	5842.96	2859.38	70.27	142.75	59.81	1.10	437729.43	614325.89	N 32 12 10.42	W 103 57 49.39
	5950.00	11.27	28.98	5935.13	2951.53	79.26	159.51	67.57	0.91	437746.20	614333.44	N 32 12 10.59	W 103 57 49.30
	6044.00	11.69	28.75	6027.25	3043.65	89.21	176.04	78.32	0.58	437762.73	614342.19	N 32 12 10.75	W 103 57 49.20
	6138.00	11.56	27.57	6120.30	3136.70	99.48	192.92	85.35	0.29	437779.80	614351.22	N 32 12 10.92	W 103 57 49.09
	6233.00	11.54	24.83	6212.40	3228.80	108.99	209.82	93.83	0.63	437796.50	614359.50	N 32 12 11.08	W 103 57 48.99
	6327.00	11.49	21.12	6304.50	3320.90	117.55	227.10	100.82	0.75	437813.78	614366.79	N 32 12 11.26	W 103 57 48.91
	6422.00	11.56	17.82	6397.59	3413.99	125.18	244.98	107.24	0.70	437831.87	614373.11	N 32 12 11.43	W 103 57 48.83
	6516.00	11.38	18.57	6489.71	3506.11	132.02	262.84	112.77	0.33	437849.52	614378.64	N 32 12 11.81	W 103 57 48.77
	6610.00	11.32	16.68	6581.87	3598.27	138.62	280.57	118.06	0.07	437867.24	614383.93	N 32 12 11.78	W 103 57 48.71
	6705.00	11.27	18.18	6675.03	3691.43	145.50	298.32	123.63	0.31	437884.99	614389.51	N 32 12 11.96	W 103 57 48.64
	6799.00	10.59	19.08	6767.33	3783.73	152.43	315.21	129.32	0.74	437901.88	614395.19	N 32 12 12.13	W 103 57 48.57
	6894.00	11.08	12.87	6860.64	3877.04	158.58	332.36	134.21	1.33	437919.03	614400.08	N 32 12 12.30	W 103 57 48.52
	6988.00	10.81	6.84	6952.63	3969.33	162.91	349.92	137.24	1.29	437936.59	614403.11	N 32 12 12.47	W 103 57 48.48
	7082.00	10.37	1.15	7045.33	4061.73	165.37	367.14	138.43	1.17	437953.81	614404.30	N 32 12 12.64	W 103 57 48.47
	7176.00	10.64	3.78	7137.78	4154.18	167.39	384.25	139.16	0.56	437970.92	614405.03	N 32 12 12.81	W 103 57 48.48

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8291.00	12.22	52.73	8239.89	5256.29	237.03	536.95	197.60	5.46	438123.81	814463.46	N 32 12 14.32	W 103 57 47.77
	8384.00	18.44	59.39	8329.54	5345.84	258.48	550.41	218.11	6.94	438137.07	814463.98	N 32 12 14.45	W 103 57 47.53
	8478.00	21.32	48.99	8418.90	5435.30	285.80	569.41	244.09	4.79	438150.06	814509.95	N 32 12 14.64	W 103 57 47.23
	8572.00	23.71	51.54	8504.88	5521.28	316.43	589.43	273.31	5.76	438171.08	814539.17	N 32 12 14.84	W 103 57 46.99
	8665.00	32.89	80.55	8586.82	5603.22	356.81	602.54	314.82	10.73	438189.19	814580.86	N 32 12 14.96	W 103 57 46.40
	8758.00	36.56	87.57	8664.09	5680.49	412.25	607.92	368.01	5.77	438194.57	814633.86	N 32 12 15.01	W 103 57 45.78
	8853.00	42.46	92.55	8736.00	5753.00	471.80	607.69	427.75	7.12	438194.35	814693.59	N 32 12 15.01	W 103 57 45.09
	8947.00	54.94	84.62	8798.58	5814.98	542.11	609.90	488.09	14.69	438196.55	814763.93	N 32 12 15.03	W 103 57 44.27
	9041.00	71.14	84.46	8841.05	5857.45	625.80	617.65	581.21	17.23	438204.51	814847.05	N 32 12 15.11	W 103 57 43.30
	9135.00	86.21	89.68	8859.47	5875.87	717.44	622.44	672.97	16.93	438209.09	814938.80	N 32 12 15.15	W 103 57 42.23
	9221.00	92.58	98.23	8880.38	5876.78	802.43	616.51	758.84	12.39	438209.16	815024.48	N 32 12 15.09	W 103 57 41.24
	9231.00	91.82	97.48	8859.99	5876.39	812.20	615.15	768.53	10.87	438201.80	815034.35	N 32 12 15.07	W 103 57 41.12
	9325.00	90.52	94.26	8858.07	5874.47	904.70	605.54	882.01	3.69	438192.19	815127.82	N 32 12 14.97	W 103 57 40.04
	9419.00	88.90	92.59	8856.55	5874.95	997.84	599.92	955.83	2.46	438186.57	815221.84	N 32 12 14.92	W 103 57 38.94
	9513.00	88.83	92.13	8860.41	5876.81	1091.20	598.05	1049.73	0.49	438182.71	815315.53	N 32 12 14.87	W 103 57 37.85
	9607.00	85.14	91.15	8882.08	5878.48	1184.68	593.36	1143.68	1.09	438180.02	815409.47	N 32 12 14.84	W 103 57 36.76
	9700.00	85.17	90.73	8863.45	5879.85	1277.28	591.84	1236.66	0.45	438178.49	815502.44	N 32 12 14.83	W 103 57 35.58
	9793.00	86.63	88.53	8866.86	5883.26	1369.94	591.82	1329.58	3.02	438176.28	815595.36	N 32 12 14.82	W 103 57 34.59
	9886.00	86.83	89.40	8872.32	5886.72	1462.58	592.49	1422.42	0.14	438178.15	815688.19	N 32 12 14.83	W 103 57 33.51
	9980.00	90.07	91.26	8875.03	5891.43	1558.22	591.95	1516.36	4.18	438178.80	815782.12	N 32 12 14.82	W 103 57 32.42
	10074.00	90.83	90.98	8874.29	5890.69	1649.60	590.11	1610.34	0.86	438176.77	815878.09	N 32 12 14.80	W 103 57 31.33
	10167.00	87.97	91.57	8875.27	5891.67	1742.35	588.04	1702.30	3.14	438174.70	815968.05	N 32 12 14.77	W 103 57 30.25
	10260.00	86.97	91.88	8877.75	5894.15	1834.83	585.41	1796.23	1.08	438172.06	816061.97	N 32 12 14.74	W 103 57 29.16
	10354.00	86.66	91.11	8878.85	5895.25	1928.36	583.12	1890.19	0.98	438169.77	816155.93	N 32 12 14.72	W 103 57 28.07
	10447.00	91.13	89.87	8878.18	5894.58	2021.03	582.32	1983.18	2.04	438169.98	816249.91	N 32 12 14.71	W 103 57 26.99
	10541.00	91.31	88.75	8876.18	5892.58	2114.83	583.45	2077.15	1.21	438170.11	816342.87	N 32 12 14.71	W 103 57 25.88
	10635.00	88.83	88.02	8876.07	5892.47	2208.72	586.10	2171.11	2.75	438172.76	816436.82	N 32 12 14.74	W 103 57 24.80
	10728.00	88.21	89.18	8878.47	5894.87	2301.57	588.38	2264.05	1.41	438175.03	816529.75	N 32 12 14.76	W 103 57 23.72
	10821.00	86.52	89.62	8881.12	5897.52	2394.34	589.35	2357.01	0.58	438178.00	816622.70	N 32 12 14.76	W 103 57 22.64
	10916.00	88.83	89.45	8883.32	5899.72	2486.11	580.12	2451.98	0.37	438176.77	816717.67	N 32 12 14.77	W 103 57 21.53
	11009.00	86.59	89.50	8885.41	5901.91	2581.88	590.97	2544.95	0.26	438177.83	816810.63	N 32 12 14.77	W 103 57 20.45
	11103.00	88.35	89.15	8887.92	5904.32	2675.66	592.06	2636.91	0.45	438178.73	816904.58	N 32 12 14.76	W 103 57 19.36
	11196.00	89.14	89.11	8889.96	5906.36	2768.48	593.49	2731.87	0.85	438180.14	816997.54	N 32 12 14.79	W 103 57 18.27
	11289.00	89.52	89.30	8891.05	5907.45	2861.30	594.78	2824.86	0.46	438181.43	817090.52	N 32 12 14.80	W 103 57 17.19
	11382.00	89.90	89.11	8892.33	5908.73	2954.12	598.07	2917.84	0.70	438182.72	817183.49	N 32 12 14.81	W 103 57 16.11
	11475.00	89.72	90.08	8893.46	5909.88	3047.90	598.74	3011.83	1.35	438183.98	817277.48	N 32 12 14.81	W 103 57 15.02
	11570.00	89.45	89.44	8894.14	5910.54	3141.86	597.13	3105.83	0.74	438185.78	817371.48	N 32 12 14.81	W 103 57 13.92
	11663.00	89.68	89.63	8894.86	5911.26	3234.45	597.66	3198.82	0.30	438184.54	817464.45	N 32 12 14.82	W 103 57 12.84
	11758.00	89.41	89.45	8895.82	5912.02	3327.25	596.63	3291.81	0.33	438185.28	817557.44	N 32 12 14.82	W 103 57 11.76
	11850.00	89.48	89.34	8896.53	5912.93	3421.05	596.82	3384.80	0.14	438186.28	817651.42	N 32 12 14.83	W 103 57 10.66
	11943.00	89.59	89.63	8897.28	5913.68	3513.85	600.45	3478.80	0.33	438187.11	817744.41	N 32 12 14.83	W 103 57 9.58
	12037.00	89.62	89.35	8897.93	5914.33	3607.84	601.30	3572.79	0.30	438187.95	817838.39	N 32 12 14.84	W 103 57 8.49
	12131.00	89.38	89.04	8898.75	5915.15	3701.47	602.82	3668.78	0.42	438189.27	817932.37	N 32 12 14.85	W 103 57 7.39
	12224.00	89.52	89.40	8899.84	5916.04	3794.29	603.88	3759.77	0.42	438190.53	818025.35	N 32 12 14.86	W 103 57 6.31
	12317.00	89.79	91.47	8900.20	5916.80	3886.97	603.18	3852.78	2.24	438189.83	818118.34	N 32 12 14.85	W 103 57 5.23
	12411.00	89.31	91.39	8901.94	5917.34	3980.50	600.83	3946.72	0.52	438187.48	818212.30	N 32 12 14.82	W 103 57 4.14
	12505.00	89.07	91.44	8902.27	5918.87	4074.03	598.51	4040.69	0.28	438185.16	818306.25	N 32 12 14.79	W 103 57 3.04
	12599.00	87.78	91.05	8904.87	5921.27	4167.56	596.47	4134.62	1.45	438183.12	818400.18	N 32 12 14.77	W 103 57 1.95
	12692.00	88.79	90.85	8907.87	5924.07	4260.14	595.09	4227.57	1.19	438181.74	818493.12	N 32 12 14.75	W 103 57 0.87
	12786.00	88.66	91.59	8909.76	5926.18	4353.70	593.25	4321.53	1.01	438179.91	818587.07	N 32 12 14.73	W 103 57 59.77
	12879.00	89.89	91.85	8911.10	5927.50	4446.20	590.82	4414.48	1.11	438177.28	818680.02	N 32 12 14.70	W 103 56 58.69
	12973.00	88.63	90.83	8912.48	5928.88	4539.77	589.75	4508.45	1.56	438175.41	818773.98	N 32 12 14.68	W 103 56 57.60
	13066.00	87.94	91.10	8915.26	5931.66	4632.35	587.35	4601.40	0.90	438174.00	818866.92	N 32 12 14.68	W 103 56 56.52
	13159.00	87.78	91.43	8918.75	5935.15	4724.85	585.30	4694.31	0.40	438171.95	818958.82	N 32 12 14.64	W 103 56 55.44
	13253.00	87.58	91.88	8922.59	5938.99	4818.27	582.59	4788.19	0.52	438169.24	819053.70	N 32 12 14.61	W 103 56 54.34
	13347.00	87.70	90.83	8925.48	5942.88	4911.76	580.53	4882.09	1.34	438167.18	819147.58	N 32 12 14.59	W 103 56 53.25
	13441.00	88.35	89.35	8929.72	5946.12	5005.44	580.54	4978.03	1.53	438165.20	819241.52	N 32 12 14.58	W 103 56 52.16
	13535.00	88.49	89.15	8932.31	5948.71	5099.23	581.77	5069.98	0.26	438168.43	819335.47	N 32 12 14.59	W 103 56 51.06
	13628.00	88.86	89.14	8934.65	5951.05	5193.03	583.18	5163.94	0.18	438169.83	819429.42	N 32 12 14.80	W 103 56 49.97
	13722.00	86.14	89.29	8937.27	5953.67	5286.82	584.46	5257.90	0.58	438171.12	819523.37	N 32 12 14.81	W 103 56 48.88
	13817.00	89.62	89.65	8939.11	5955.51	5380.80	585.33	5351.87	1.62	438171.99	819617.34	N 32 12 14.82	W 103 56 47.78
	13911.00	89.93	89.14	8939.48	5955.88	5474.40	586.33	5445.87	0.63	438172.98	819711.32	N 32 12 14.82	W 103 56 46.69
	14004.00	87.62	89.29	8941.47	5957.87	5567.21	587.80	5538.83	2.48	438174.25	819804.28	N 32 12 14.83	W 103 56 45.51
	14098.00	87.07	89.13	8945.92	5962.22	5660.93	586.89	5632.72	0.81	438175.56	819898.16	N 32 12 14.84	W 103 56 44.42
	14192.00	87.31	89.02	8950.43	5968.63	5754.66	590.41	5729.59	0.28	438177.06	819992.03	N 32 12 14.85	W 103 56 43.42
	14286.00	87.87	89.38	8958.33	5974.73	5842.15	593.03	5914.41	0.35	438179.69	820179.83	N 32 12 14.87	W 103 56 41.24
	14380.00	86.66	89.26	8964.00	5980.40	5936.24	595.25	6101.31	0.43	438181.90	820368.71	N 32 12 14.89	W 103 56 39.06
	14474.00	86.93	89.74	8967.95	5984.35	6031.24	596.89	6288.28	0.29	438183.54	820554.85	N 32 12 14.70	W 103 56 36.87
	14568.00	88.35	89.68	8972.41	5988.81	6123.74	597.88	6477.20	0.31	438184.53	820742.58	N 32 12 14.70	W 103 56 34.69
	14662.00	88.82	89.88	8974.92	5991.32	6216.47	596.26	6572.17	0.37	438184.91	820937.54	N 32 12 14.70	W 103 56 33.58
	14756.00	88.52	88.44	8977.27	5993.67	63							