

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 - 015-43076		³ Reason for Filing Code/ Effective Date NW
⁵ Pool Name CEDAR CANYON BONE SPRING		⁶ Pool Code 11520
⁷ Property Code: 304798	⁸ Property Name: CYPRESS 34 FEDERAL	
		⁹ Well Number: 10H

II. ¹⁰ Surface Location

Ul or lot no. D	Section 34	Township 23S	Range 29E	Lot Idn	Feet from the 210	North/South Line NORTH	Feet from the 330	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location

TOP PERF- 716' FNL 393' FWL BOTTOM PERF- 428' FSL 558' FWL

UL or lot no. M	Section 34	Township 23S	Range 29E	Lot Idn	Feet from the 148	North/South line SOUTH	Feet from the 554	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code : F		¹⁴ Gas Connection Date: 9/29/15		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
239284	OCCIDENTAL ENERGY TRANSPORTATION (BRIDGER LLC)	O
36785	DCP MIDSTREAM, LP	G

IV. Well Completion Data

²¹ Spud Date 8/7/15	²² Ready Date 9/20/15	²³ TD 13512'M 8749'V	²⁴ PBTD 13288'M 8759'V	²⁵ Perforations 13232-9089'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
14-3/4"		10-3/4"	315'		430sx
9-7/8"		7-5/8"	3035'		1130sx
6-3/4"		5-1/2" X 4-1/2"	13496'		1070sx

V. Well Test Data

³¹ Date New Oil 9/29/15	³² Gas Delivery Date 9/29/15	³³ Test Date 9/30/15	³⁴ Test Length 24 HRS.	³⁵ Tbg. Pressure ---	³⁶ Csg. Pressure 650
³⁷ Choke Size 22/64	³⁸ Oil 115	³⁹ Water 1159	⁴⁰ Gas 451	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:
9/30/15

Phone:
432-685-5936

OIL CONSERVATION DIVISION	
Approved by:	<i>[Signature]</i>
Title:	<i>[Signature]</i>
Approval Date:	10-6-15
Pending BLM approvals will subsequently be reviewed and scanned <i>[Signature]</i>	

Provide signature page for Survey

NM OIL CONSERVATION

ARTESIA DISTRICT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OCT 05 2015FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to RECOVER
abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM86024

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
CYPRESS 34 FEDERAL 10H9. API Well No.
30-015-4307610. Field and Pool, or Exploratory
CEDAR CANYON BONE SPRING11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INC.Contact: JANA MENDIOLA
E-Mail: janalyn_mendiola@oxy.com

3a. Address

P.O. BOX 50250
MIDLAND, TX 79710

3b. Phone No. (include area code)

Ph: 432-685-5936
Fx: 432-685-5742

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

Sec 34 T23S R29E NVNW 210FNL 330FWL
32.267892 N Lat, 103.979624 W Lon**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

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

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

RU CTU 9/2/15, RIH & clean out to PBTD @ 13288', pressure test csg to 8700# for 30 min, good test.
RIH & perf @ 13232-13036, 12931-12725, 12628-12422, 12325-12119, 12022-11816, 11719-11513,
11416-11210, 11113-10907, 10810-10604, 10507-10301, 10204-9998, 9901-9695, 9598-9392, 9295-9089'
Total 504 holes. Frac in 14 stages w/ 780740g Slick Water + 27875g 7.5% HCl acid + 104528g WF115
+ 2173648g YF115FlexD w/ 6275460# sand, RD Schlumberger 9/19/15. RIH & clean out, flow to clean up
and test well for potential.

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

**Electronic Submission #318166 verified by the BLM Well Information System
For OXY USA INC., sent to the Carlsbad**

Name (Printed/Typed) DAVID STEWART

Title SR. REGULATORY ADVISOR

Signature (Electronic Submission)

Date 09/30/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USEPending BLM approvals will
subsequently be reviewed
and scanned


Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Oxy Cypress 34 Federal 10H MWD 0ft-13512ft Survey Geodetic Report

(Def Survey)



OCT 05 2015

RECEIVED

Report Date: August 28, 2015 - 11:25 AM
 Client: OXY
 Field: NM Eddy County (NAD 27)
 Structure / Slot: Oxy Cypress 34 Federal 10H / Oxy Cypress 34 Federal 10H
 Well: Oxy Cypress 34 Federal 10H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Cypress 34 Federal 10H MWD 0ft-13512ft
 Survey Date: August 08, 2015
 Tort / AHD / DDI / ERD Ratio: 244.873' / 5248.025 ft / 6.296 / 0.598
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 4.41113", W 103° 58' 46.64901"
 Location Grid N/E Y/X: N 461357.000 RUS, E 609328.100 IUS
 CRS Grid Convergence Angle: 0.1888°
 Grid Scale Factor: 0.99992278
 Version / Patch: 2.8.572.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 177.890° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3067.300 ft above MSL
 Seabed / Ground Elevation: 3049.800 ft above MSL
 Magnetic Declination: 7.375°
 Total Gravity Field Strength: 998.4657 mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48333.012 nT
 Magnetic Dip Angle: 60.135°
 Declination Date: August 08, 2015
 Magnetic Declination Model: HDGM 2015
 North Reference: Grid North
 Grid Convergence Used: 0.1888°
 Total Corr Mag North->Grid North: 7.1857°
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461357.00	609328.10	N 32 16 4.41 W 103 58 46.65	
Ground Level	17.50	0.00	0.00	17.50	0.00	0.00	0.00	0.00	461357.00	609328.10	N 32 16 4.41 W 103 58 46.65	
	353.00	1.93	292.31	352.94	-2.34	2.14	-5.23	0.58	461359.14	609322.87	N 32 16 4.43 W 103 58 46.71	
	477.00	0.73	144.64	476.92	-2.49	2.24	-6.66	2.12	461359.24	609321.44	N 32 16 4.43 W 103 58 46.73	
	536.00	0.18	113.03	535.91	-2.11	1.87	-6.34	1.09	461358.87	609321.76	N 32 16 4.43 W 103 58 46.72	
	718.00	0.28	119.86	717.91	-1.77	1.56	-5.72	0.05	461358.55	609322.38	N 32 16 4.43 W 103 58 46.72	
	785.00	0.09	152.51	784.91	-1.65	1.43	-5.57	0.28	461358.43	609322.53	N 32 16 4.43 W 103 58 46.71	
	974.00	0.18	201.56	973.91	-1.24	1.02	-5.61	0.07	461358.02	609322.49	N 32 16 4.42 W 103 58 46.71	
	1037.00	0.09	247.65	1036.91	-1.13	0.91	-5.69	0.21	461357.91	609322.41	N 32 16 4.42 W 103 58 46.72	
	1100.00	0.09	48.15	1099.91	-1.15	0.93	-5.70	0.28	461357.93	609322.40	N 32 16 4.42 W 103 58 46.72	
	1225.00	0.18	150.67	1224.91	-1.03	0.82	-5.53	0.17	461357.82	609322.57	N 32 16 4.42 W 103 58 46.71	
	1287.00	0.09	223.00	1286.91	-0.91	0.70	-5.51	0.28	461357.70	609322.59	N 32 16 4.42 W 103 58 46.71	
	1413.00	0.18	273.28	1412.91	-0.86	0.64	-5.78	0.11	461357.64	609322.32	N 32 16 4.42 W 103 58 46.72	
	1476.00	0.18	203.99	1475.91	-0.78	0.56	-5.92	0.32	461357.56	609322.18	N 32 16 4.42 W 103 58 46.72	
	1539.00	0.18	204.69	1538.91	-0.61	0.38	-6.00	0.00	461357.38	609322.10	N 32 16 4.42 W 103 58 46.72	
	1601.00	0.18	17.67	1600.91	-0.61	0.38	-6.01	0.58	461357.38	609322.09	N 32 16 4.42 W 103 58 46.72	
	1727.00	0.09	113.63	1726.91	-0.75	0.53	-5.86	0.17	461357.53	609322.59	N 32 16 4.42 W 103 58 46.71	
	1915.00	0.09	83.66	1914.91	-0.70	0.49	-5.58	0.02	461357.49	609322.52	N 32 16 4.42 W 103 58 46.71	
	2103.00	0.09	19.88	2102.91	-0.85	0.64	-5.38	0.05	461357.64	609322.72	N 32 16 4.42 W 103 58 46.71	
	2292.00	0.18	177.48	2291.91	-0.69	0.48	-5.32	0.14	461357.48	609322.78	N 32 16 4.42 W 103 58 46.71	
	2418.00	0.26	99.48	2417.91	-0.43	0.24	-5.03	0.23	461357.24	609323.07	N 32 16 4.41 W 103 58 46.71	
	2607.00	0.18	87.06	2606.91	-0.35	0.18	-4.31	0.05	461357.18	609323.79	N 32 16 4.42 W 103 58 46.70	
	2794.00	1.56	205.46	2793.69	1.93	2.13	-5.12	0.69	461354.87	609322.98	N 32 16 4.39 W 103 58 46.71	
	2963.00	0.18	8.71	2962.87	3.73	-3.97	-6.08	1.04	461353.03	609322.02	N 32 16 4.37 W 103 58 46.72	
	3106.00	0.09	184.49	3105.87	3.62	-3.86	-6.06	0.19	461353.14	609322.04	N 32 16 4.37 W 103 58 46.72	
	3294.00	0.09	266.49	3293.87	3.77	-4.02	-6.22	0.06	461352.98	609321.88	N 32 16 4.37 W 103 58 46.72	
	3483.00	0.09	172.88	3482.87	3.93	-4.17	-6.35	0.07	461352.83	609321.75	N 32 16 4.37 W 103 58 46.72	
	3547.00	0.00	172.88	3546.87	3.98	-4.22	-6.34	0.14	461352.78	609321.76	N 32 16 4.37 W 103 58 46.72	
	3736.00	0.09	190.79	3735.87	4.12	-4.37	-6.37	0.05	461352.63	609321.73	N 32 16 4.37 W 103 58 46.72	
	3924.00	0.09	178.57	3923.87	4.41	-4.66	-6.39	0.01	461352.34	609321.71	N 32 16 4.37 W 103 58 46.72	
	4112.00	0.09	110.23	4111.87	4.62	-4.86	-6.25	0.05	461352.14	609321.85	N 32 16 4.36 W 103 58 46.72	
	4299.00	0.09	260.87	4298.87	4.69	-4.93	-6.26	0.09	461352.07	609321.84	N 32 16 4.36 W 103 58 46.72	
	4424.00	0.09	275.54	4423.86	4.69	-4.94	-6.45	0.02	461352.06	609321.65	N 32 16 4.36 W 103 58 46.72	
	4612.00	0.09	170.79	4611.86	4.82	-5.07	-6.58	0.08	461351.93	609321.52	N 32 16 4.36 W 103 58 46.73	
	4801.00	0.00	170.79	4800.86	4.96	-5.22	-6.55	0.05	461351.78	609321.55	N 32 16 4.36 W 103 58 46.73	
	4988.00	0.09	72.74	4987.86	4.92	-5.17	-6.41	0.05	461351.83	609321.69	N 32 16 4.36 W 103 58 46.72	
	5176.00	0.09	37.83	5175.86	4.77	-5.01	-6.18	0.03	461351.99	609321.92	N 32 16 4.36 W 103 58 46.72	
	5364.00	0.09	233.34	5363.86	4.74	-4.99	-6.21	0.09	461352.01	609321.89	N 32 16 4.36 W 103 58 46.72	
	5551.00	0.09	202.94	5550.86	4.96	-5.21	-6.38	0.03	461351.79	609321.72	N 32 16 4.36 W 103 58 46.72	
	5739.00	0.09	161.41	5738.86	5.23	-5.48	-6.39	0.03	461351.52	609321.71	N 32 16 4.36 W 103 58 46.72	
	5926.00	0.09	142.37	5925.86	5.50	-5.74	-6.26	0.02	461351.26	609321.84	N 32 16 4.35 W 103 58 46.72	
	6052.00	0.09	238.85	6051.86	5.62	-5.87	-6.28	0.11	461351.13	609321.82	N 32 16 4.35 W 103 58 46.72	
	6240.00	0.09	98.70	6239.86	5.72	-5.97	-6.26	0.09	461351.03	609321.84	N 32 16 4.35 W 103 58 46.72	
	6427.00	0.09	163.98	6426.86	5.89	-6.13	-6.08	0.05	461350.87	609322.02	N 32 16 4.35 W 103 58 46.72	
	6491.00	4.66	194.06	6490.79	8.44	-8.70	-6.69	7.16	461348.30	609321.41	N 32 16 4.33 W 103 58 46.73	
	6616.00	9.23	177.93	6614.85	23.35	-23.66	-7.57	3.94	461333.35	609320.53	N 32 16 4.18 W 103 58 46.74	
	6648.00	7.56	159.65	6646.51	27.92	-28.20	-6.74	9.77	461328.81	609321.36	N 32 16 4.13 W 103 58 46.73	
	6742.00	8.00	102.94	6739.78	35.51	-35.47	1.80	7.85	461321.53	609320.99	N 32 16 4.06 W 103 58 46.83	
	6804.00	8.35	85.58	6801.16	36.46	-36.09	10.49	4.01	461320.92	609320.58	N 32 16 4.05 W 103 58 46.53	
	6867.00	8.62	69.54	6863.48	34.81	-34.08	19.48	3.77	461322.92	609317.57	N 32 16 4.07 W 103 58 46.42	
	6930.00	7.47	51.35	6925.86	30.89	-29.88	27.10	4.41	461327.13	609355.20	N 32 16 4.11 W 103 58 46.33	
	7056.00	7.74	21.55	7050.80	18.26	-16.86	36.62	3.10	461340.14	609364.71	N 32 16 4.24 W 103 58 46.22	
	7120.00	7.74	15.32	7114.22	10.20	-8.70	39.34	1.31	461348.30	609367.43	N 32 16 4.32 W 103 58 46.19	
	7182.00	10.38	12.62	7175.44	0.82	0.78	41.68	4.30	461357.78	609369.78	N 32 16 4.42 W 103 58 46.16	
	7245.00	10.02	358.18	7237.46	-10.14	11.79	42.77	4.14	461368.79	609370.85	N 32 16 4.53 W 103 58 46.15	
	7308.00	10.73	355.65	7299.43	-21.48	23.12	42.15	1.34	461380.11	609370.24	N 32 16 4.64 W 103 58 46.16	
	7371.00	10.82	358.41	7361.32	-33.26	34.88	41.54	0.83	461391.87	609369.63	N 32 16 4.75 W 103 58 46.16	
	7434.00	10.64	3.73	7423.22	-44.95	46.59	41.75	1.60	461400.59	609369.85	N 32 16 4.87 W 103 58 46.16	
	7497.00	9.23	7.76	7485.27	-55.72	57.40	42.81	2.49	461414.40	609370.91	N 32 16 4.98 W 103 58 46.15	
	7559.00	8.18	9.56	7549.56	-64.93	66.68	44.22	1.75	461423.67	609372.31	N 32 16 5.07 W 103 58 46.13	
	7622.00	6.60	5.39	7609.03	-72.91	74.70	45.30	2.55	461431.70	609373.40	N 32 16 5.15 W 103 58 46.12	
	7685.00	4.66	17.36	7671.73	-78.91	80.75	46.41	3.58	461437.74	609374.50	N 32 16 5.21 W 103 58 46.11	
	7748.00	4.84	55.54	7734.53	-82.74	84.70	49.36	4.93	461441.69	609377.46	N 32 16 5.25 W 103 58 46.07	
	7810.00	5.72	91.60	7796.28	-83.93	86.09	54.61	5.44	461443.09	609382.70	N 32 16 5.26 W 103 58 46.01	
	7873.00	9.67	92.00	7858.70	-83.34	85.82	63.04	6.27	461442.81	609391.13	N 32 16 5.26 W 103 58 45.91	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7935.00	5.45	87.22	7920.15	-82.98	85.78	71.19	6.88	461442.77	609399.28	N 32 16 5.26	W 103 58 45.82
	7997.00	1.06	98.19	7982.00	-82.91	85.84	74.70	7.12	461442.83	609402.79	N 32 16 5.26	W 103 58 45.78
	8095.00	0.26	235.93	8080.03	-82.83	85.59	75.41	1.29	461442.58	609403.50	N 32 16 5.26	W 103 58 45.77
	8145.00	0.44	254.21	8130.03	-82.53	85.47	75.13	0.42	461442.47	609403.22	N 32 16 5.25	W 103 58 45.77
	8175.00	2.46	193.73	8160.02	-81.88	84.82	74.87	7.59	461441.81	609402.56	N 32 16 5.25	W 103 58 45.77
	8207.00	6.68	185.40	8191.91	-79.37	82.29	74.53	13.32	461439.29	609402.62	N 32 16 5.22	W 103 58 45.78
	8238.00	10.99	181.94	8222.53	-74.64	77.54	74.26	14.00	461434.54	609402.35	N 32 16 5.18	W 103 58 45.78
	8269.00	15.04	181.91	8252.73	-67.67	70.57	74.02	13.06	461427.56	609402.12	N 32 16 5.11	W 103 58 45.78
	8300.00	19.26	183.20	8282.35	-58.57	61.44	73.60	13.67	461419.43	609401.70	N 32 16 5.02	W 103 58 45.79
	8332.00	22.77	185.47	8312.21	-47.17	50.00	72.72	11.26	461407.00	609400.81	N 32 16 4.90	W 103 58 45.80
	8362.00	25.68	187.01	8339.57	-35.00	37.77	71.37	9.93	461394.76	609399.47	N 32 16 4.78	W 103 58 45.82
	8394.00	27.79	186.74	8368.15	-20.79	23.48	69.65	6.60	461380.47	609397.75	N 32 16 4.64	W 103 58 45.84
	8424.00	29.81	186.53	8394.43	-6.50	9.12	67.98	6.74	461366.12	609396.08	N 32 16 4.50	W 103 58 45.86
	8456.00	30.42	184.99	8422.11	9.40	-6.85	66.37	3.08	461350.15	609394.47	N 32 16 4.34	W 103 58 45.88
	8487.00	31.49	183.45	8448.70	25.24	-22.75	65.20	4.29	461334.25	609393.30	N 32 16 4.18	W 103 58 45.89
	8517.00	33.15	184.44	8474.05	41.19	-38.75	64.10	5.81	461318.25	609392.19	N 32 16 4.03	W 103 58 45.90
	8580.00	36.67	189.78	8525.72	76.72	-74.49	59.56	7.39	461282.52	609387.66	N 32 16 3.67	W 103 58 45.96
	8642.00	44.32	190.17	8572.83	116.04	-114.11	52.58	12.35	461242.90	609380.68	N 32 16 3.28	W 103 58 46.04
	8705.00	50.47	189.08	8615.46	161.41	-159.80	44.86	9.84	461197.21	609372.95	N 32 16 2.83	W 103 58 46.13
	8768.00	56.81	182.53	8652.82	211.59	-210.22	39.85	13.08	461146.80	609367.95	N 32 16 2.33	W 103 58 46.19
	8831.00	62.08	176.41	8684.86	265.77	-264.41	40.43	11.83	461092.61	609368.53	N 32 16 1.79	W 103 58 46.19
	8894.00	69.82	174.76	8710.51	323.21	-321.72	44.88	12.52	461035.30	609372.98	N 32 16 1.23	W 103 58 46.14
	8960.00	76.46	174.76	8729.64	386.25	-384.58	50.65	10.06	460972.45	609378.74	N 32 16 0.60	W 103 58 46.07
	9022.00	77.21	174.68	8743.76	446.53	-444.70	56.20	1.22	460912.34	609384.30	N 32 16 0.01	W 103 58 46.01
	9085.00	80.02	172.59	8756.20	508.12	-506.07	63.05	5.52	460850.97	609391.15	N 32 16 59.40	W 103 58 45.93
	9148.00	83.10	170.80	8765.45	570.07	-567.72	72.06	5.64	460789.32	609400.15	N 32 15 58.79	W 103 58 45.83
	9211.00	86.35	172.01	8771.24	632.40	-629.74	81.43	5.50	460727.31	609409.52	N 32 15 58.18	W 103 58 45.72
	9274.00	89.52	173.08	8773.51	695.09	-692.16	89.60	5.31	460664.90	609417.69	N 32 15 57.56	W 103 58 45.63
	9337.00	91.54	173.79	8772.93	757.90	-754.74	96.80	3.40	460602.32	609424.89	N 32 15 56.94	W 103 58 45.55
	9400.00	91.19	173.51	8771.42	820.72	-817.34	103.76	0.71	460539.73	609431.86	N 32 15 56.32	W 103 58 45.47
	9463.00	91.28	173.35	8770.07	883.52	-879.91	110.97	0.29	460477.16	609433.06	N 32 15 55.70	W 103 58 45.39
	9526.00	91.35	174.11	8768.62	946.34	-942.51	117.85	1.21	460414.56	609445.94	N 32 15 55.08	W 103 58 45.31
	9589.00	91.35	174.91	8767.12	1009.22	-1005.21	123.87	1.27	460351.87	609451.96	N 32 15 54.46	W 103 58 45.24
	9652.00	91.28	174.77	8765.67	1072.12	-1067.93	129.54	0.26	460289.15	609457.83	N 32 15 53.84	W 103 58 45.18
	9714.00	91.63	174.65	8764.09	1134.01	-1129.65	135.25	0.60	460227.44	609463.34	N 32 15 53.23	W 103 58 45.12
	9777.00	92.59	175.47	8761.78	1196.89	-1182.37	140.68	2.00	460164.72	609468.76	N 32 15 52.61	W 103 58 45.06
	9840.00	93.47	176.61	8759.44	1259.77	-1255.13	145.02	2.28	460101.97	609473.11	N 32 15 51.99	W 103 58 45.01
	9903.00	93.21	177.42	8754.77	1322.66	-1317.94	148.30	1.35	460039.17	609478.38	N 32 15 51.36	W 103 58 44.97
	9966.00	92.51	180.09	8751.63	1385.57	-1380.84	149.66	4.38	459976.27	609477.75	N 32 15 50.74	W 103 58 44.96
	10028.00	91.80	181.17	8749.30	1447.45	-1442.79	148.98	2.08	459914.32	609477.07	N 32 15 50.13	W 103 58 44.97
	10154.00	91.01	182.97	8746.21	1573.05	-1568.66	144.43	1.56	459788.46	609472.52	N 32 15 48.88	W 103 58 45.03
	10284.00	89.25	181.10	8745.91	1702.69	-1698.57	139.81	1.98	459658.56	609467.90	N 32 15 47.60	W 103 58 45.09
	10346.00	90.13	181.39	8746.25	1764.57	-1760.56	138.47	1.49	459596.58	609466.56	N 32 15 46.99	W 103 58 45.10
	10471.00	89.08	180.26	8747.11	1889.39	-1885.54	136.67	1.23	459471.61	609464.76	N 32 15 45.75	W 103 58 45.13
	10597.00	88.55	180.01	8749.72	2015.26	-2011.51	136.37	0.47	459345.65	609464.46	N 32 15 44.50	W 103 58 45.14
	10722.00	86.88	180.83	8754.70	2140.02	-2136.40	135.46	1.49	459220.77	609463.55	N 32 15 43.27	W 103 58 45.15
	10848.00	85.30	181.08	8763.29	2265.54	-2262.08	133.36	1.27	459095.09	609461.45	N 32 15 42.02	W 103 58 45.18
	10911.00	85.30	180.31	8768.45	2328.24	-2324.82	132.60	1.22	459032.32	609460.69	N 32 15 41.40	W 103 58 45.19
	11019.00	92.51	178.41	8770.52	2436.11	-2432.76	133.81	6.90	458924.43	609461.90	N 32 15 40.33	W 103 58 45.18
	11143.00	92.51	177.71	8765.09	2559.99	-2556.57	138.00	0.56	458800.63	609466.09	N 32 15 39.11	W 103 58 45.14
	11267.00	93.03	177.87	8759.09	2683.84	-2680.34	142.78	0.44	458676.88	609470.87	N 32 15 37.88	W 103 58 45.09
	11391.00	92.51	178.12	8753.10	2807.70	-2804.12	147.11	0.47	458553.11	609475.20	N 32 15 36.66	W 103 58 45.04
	11517.00	91.54	181.60	8748.65	2933.51	-2930.02	147.42	2.87	458427.22	609475.50	N 32 15 35.41	W 103 58 45.04
	11643.00	91.01	178.04	8745.84	3059.38	-3055.96	147.81	2.86	458301.28	609475.90	N 32 15 34.17	W 103 58 45.05
	11768.00	91.10	177.28	8743.54	3184.36	-3180.84	152.92	0.61	458176.42	609481.00	N 32 15 32.93	W 103 58 44.99
	11893.00	89.87	176.85	8742.48	3309.34	-3305.67	159.32	1.04	458051.60	609487.40	N 32 15 31.70	W 103 58 44.92
	12017.00	89.87	175.73	8742.77	3433.30	-3429.40	167.34	0.90	457927.87	609495.43	N 32 15 30.47	W 103 58 44.83
	12143.00	90.84	175.54	8741.98	3559.21	-3555.03	176.93	0.78	457802.25	609505.01	N 32 15 29.23	W 103 58 44.73
	12268.00	87.67	177.34	8743.61	3684.14	-3679.76	184.69	2.92	457677.53	609512.77	N 32 15 27.99	W 103 58 44.64
	12392.00	86.70	178.36	8749.70	3807.99	-3803.52	189.34	1.13	457553.78	609517.42	N 32 15 26.77	W 103 58 44.59
	12517.00	88.46	178.95	8754.98	3932.85	-3928.37	192.27	1.48	457428.94	609520.35	N 32 15 25.53	W 103 58 44.56
	12641.00	87.49	178.33	8759.36	4056.76	-4052.26	195.21	0.93	457305.07	609523.29	N 32 15 24.31	W 103 58 44.53
	12766.00	90.04	177.69	8762.05	4181.72	-4177.14	199.55	2.10	457180.19	609527.63	N 32 15 23.07	W 103 58 44.49
	12890.00	90.04	176.96	8761.97	4305.72	-4301.00	205.33	0.59	457056.34	609533.42	N 32 15 21.84	W 103 58 44.42
	13016.00	90.22	175.49	8761.68	4431.66	-4426.73	213.63	1.18	456930.62	609541.71	N 32 15 20.60	W 103 58 44.33
	13141.00	90.92	175.29	8760.44	4556.55	-4551.32	223.68	0.58	456806.05	609551.76	N 32 15 19.37	W 103 58 44.22
	13267.00	90.84	179.09	8758.50	4682.50	-4677.13	229.85	3.02	456680.24	609557.93	N 32 15 18.12	W 103 58 44.15
	13393.00	92.59	182.41	8754.73	4808.26	-4803.04	228.20	2.96	456554.34	609556.29	N 32 15 16.88	W 103 58 44.18
	13429.00	92.95	181.80	8752.99	4944.11	-4839.97	226.88	1.97	456518.41	609554.97	N 32 15 16.52	W 103 58 44.19
	13512.00	92.95	181.80	8748.72	4926.80	-4921.82	224.28	0.00	456435.57	609552.36	N 32 15 15.70	W 103 58 44.23

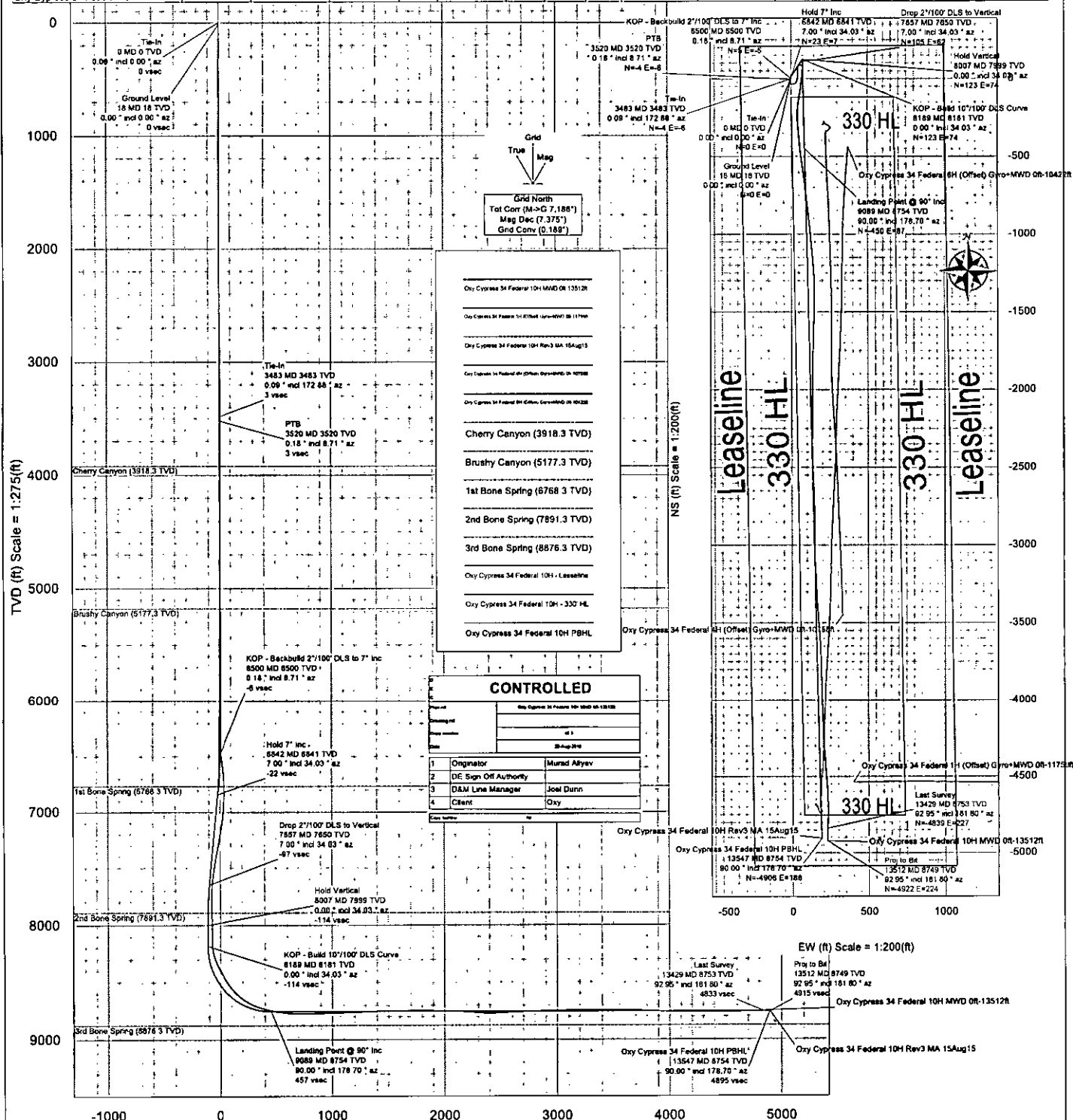
Survey Type: Delf Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95,000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	17.500	Act Stns	30.000	SLB_MWD-STD_HDGM-Depth Only	Original Borehole / Oxy Cypress 34 Federal 10H MWD 0ft-13512ft
	1	17.500	353.000	1/98 425	30.000	SLB_MWD-STD_HDGM	Original Borehole / Oxy Cypress 34 Federal 10H MWD 0ft-13512ft
	1	353.000	13512.000	Act Stns	30.000	SLB_MWD-STD_HDGM	Original Borehole / Oxy Cypress 34 Federal 10H MWD 0ft-13512ft

Borehole:	Well:	Field:	Structure:
Original Borehole	Cypress 34 Federal 10H	NM Eddy County (NAD 27)	CanElsion 46
Gravity & Magnetic Parameters			
Model:	IDGEM 2015	Dip:	86.135°
Date:	09-Aug-2015	Surface Location	NAD27 New Mexico State Plane, Eastern Zone US Feet
Latitude:	7.371° N	Lat:	N 32 18 4.41
Longitude:	-108.466deg (W 108deg Based)	Long:	W 103 28 46.85
Grav. Fx:	998.66mgals	Easting:	689328.17US
Scale Fact:	8.99992279	Grid Cont:	8.1889'
Miscellaneous:		Sht:	Cypress 34 Federal 10H
TVD Ref:	RKIN(267.38 above HSL)	Scale Fact:	8.99992279
		Scale Fact:	8.99992279
		Scale Fact:	8.99992279

Critical Points														
Comments	Survey MD(t)	Inclination(deg)	Azimuth(deg)	TVN(ft)	Sub-Sec TVD	VS(t)	NS(t)	FVN(ft)	Latitude(deg)	Longitude(deg)	Easting(ft)/S	Northing(ft)/S	DI S(1000)	Tool Face(deg)
Tie-In	3483.00	0.09	172.98	3482.87	145.57	3.93	-4.17	-6.35	N 32 16 E 4 3701 W	103 58 46 723	609321.75	461325.83	0.07	8 71
1PB	1520.00	0.18	8.71	3519.87	452.57	1.90	-4.14	-6.34	N 32 16 E 4 3701 W	103 58 46 723	609321.77	461352.86	0.07	8 71
KOP	2918.44	0.18	8.71	3919.30	851.00	2.67	-2.01	-6.15	N 32 16 E 4 3813 W	103 58 46 731	609322.55	461352.86	0.00	8 71
Grassy Canyon	5177.24	0.18	8.71	5177.30	2110.00	0.00	-1.55	-6.15	N 32 16 E 4 4211 W	103 58 46 734	609322.55	461358.00	0.00	8 71
CHOP - Backbuild 2'10"100' DLS to 7' Inc.	6500.15	0.18	8.71	6500.00	3432.70	-5.30	5.11	-4.92	N 32 16 E 4 4462 W	103 58 46 716	609323.58	461362.11	0.00	0.82
1st Bone Spring	6768.88	5.54	33.86	6768.30	3701.00	-16.20	16.30	2.38	N 32 16 E 4 572	W 103 58 46 698	609330.48	461373.30	2.00	34.03
Hold 7' Inc	6842.94	7.00	34.03	6841.02	3737.72	-29.65	29.93	8.84	N 32 16 E 4 638	W 103 58 46 621	609333.94	461375.93	2.00	34.03
Step 2'100' DLS to Vertical	7052.67	0.00	34.03	7050.00	4502.70	-62.42	62.42	10.72	N 32 16 E 4 541 W	103 58 45 698	609339.92	461452.74	2.00	34.03
2nd Bone Spring	7899.24	2.16	34.03	7891.30	4824.00	-118.36	121.26	73.24	N 32 16 E 5 608	W 103 58 45 791	609401.33	461478.25	2.00	34.03
Hold Vertical	8007.09	0.00	34.03	7999.13	4931.83	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	34.03
KOP - Build 10'100' DLS Curve	8199.31	0.00	34.03	8181.34	5114.04	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
Landmark	9049.31	0.00	34.03	9027.80	5449.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778	609402.47	461479.93	2.00	178.70
End of 10'100' DLS	9149.31	0.00	34.03	9127.80	5549.88	-120.00	122.84	74.37	N 32 16 E 5 626	W 103 58 45 778				



Vertical Section (ft) Azim = 173.394° Scale = 1:275(ft) Origin = 0N/-S, 0E/-W