

Oilfield Services, Central U.S. Land  
**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)

RECEIVED

JUN 04 2019

**Schlumberger**

**DISTRICT II-ARTESIA O.C.D.**

December 5, 2018

Oxy USA Incorporated  
5 Greenway Plaza, Suite 110  
Houston, TX 77046

Re:

CLIENT: Oxy USA Incorporated  
WELL: Corral Canyon 36-25 Fed Com 33H  
FIELD: Purple Sage Wolfcamp

RIG: H&P 635  
COUNTY: Eddy  
API NO: 30-015-44643  
JOB NO: 18MLD3543

SEC 1, T25S, R29E, Eddy NM  
N 32.16500 W -103.94150

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 &amp; Title of<br/>Surveyor</u> | <u>Drainhole Number</u>                             | <u>Surveyed Depths</u>      | <u>Dates Performed</u>                   | <u>Type of Survey</u>                        |
|-----------------------------------------|-----------------------------------------------------|-----------------------------|------------------------------------------|----------------------------------------------|
| Jamie Castille                          | Corral Canyon 36-25<br>Fed Com 33H<br>Original Hole | 622.00 Ft to<br>20816.00 Ft | November 3, 2018 to<br>November 19, 2018 | TelePacer/SlimPulse<br>Third Party Corrected |

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

Mike Stephens  
Field Service Manager

Schlumberger-Private

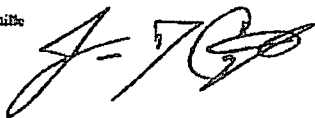
Oilfield Services, Central U.S. Land  
Schlumberger Drilling and Measurements  
Drilling Group  
Geo Market Area: South West Texas Basin  
7220 W I-H 20  
Midland, Texas 79706  
Phone : (432) 742-5400 (Main)  
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**Schlumberger**

Well Reference:  
SEC 1, T25S, R29E, Eddy NM  
N 32.16500 W -103.94150

I, Jamie Castille certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 03, 2018 through November 19, 2018, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 622.00 feet to a depth of 20816.00 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 Incorporated for the Corral Canyon 36-25 Fed Com 33H Well (Original Hole) API No. 30-015-44643 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  
Jamie Castille  
FE



Subscribed and Sworn to before me this 5<sup>th</sup> day of December (month) 2018 (yr)

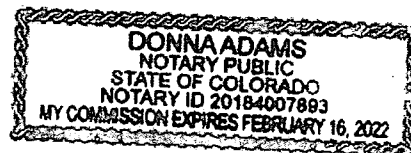
My Commission expires:

2-16-2022

Donna Adams  
Notary Public

(signature)

Adams County Colorado  
(County State)



Schlumberger

OXY

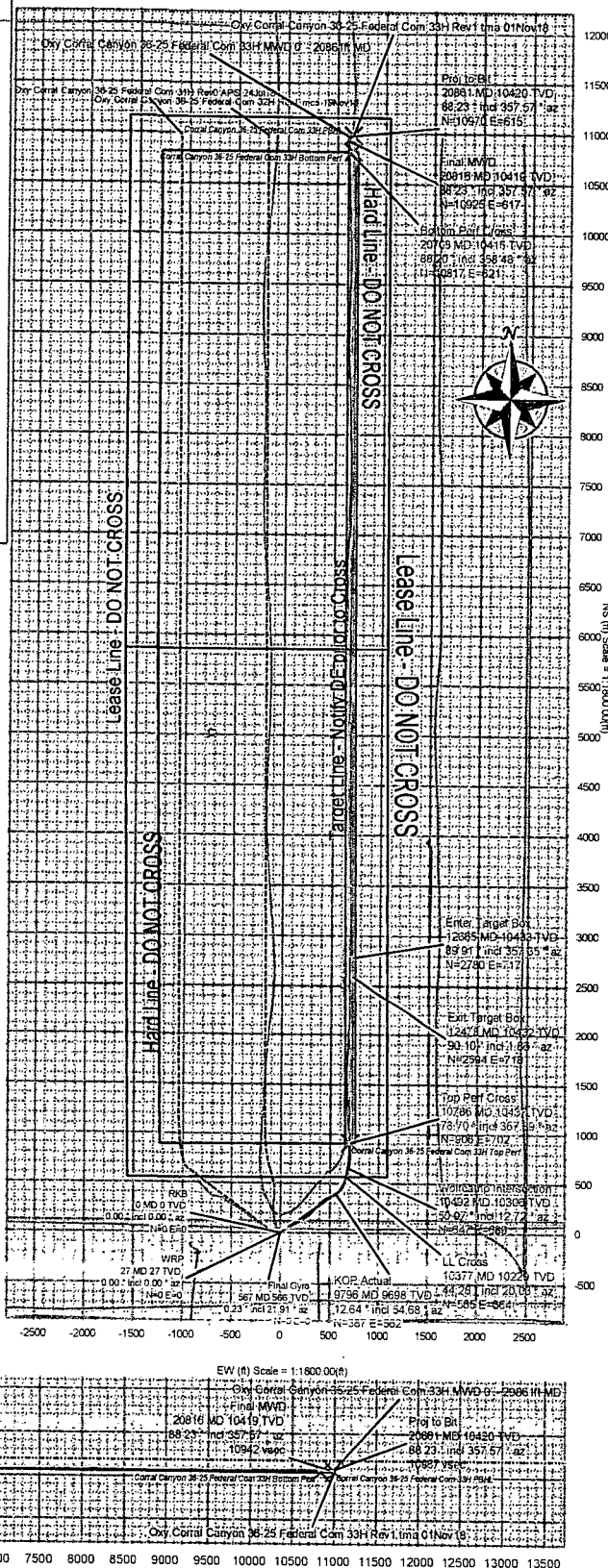
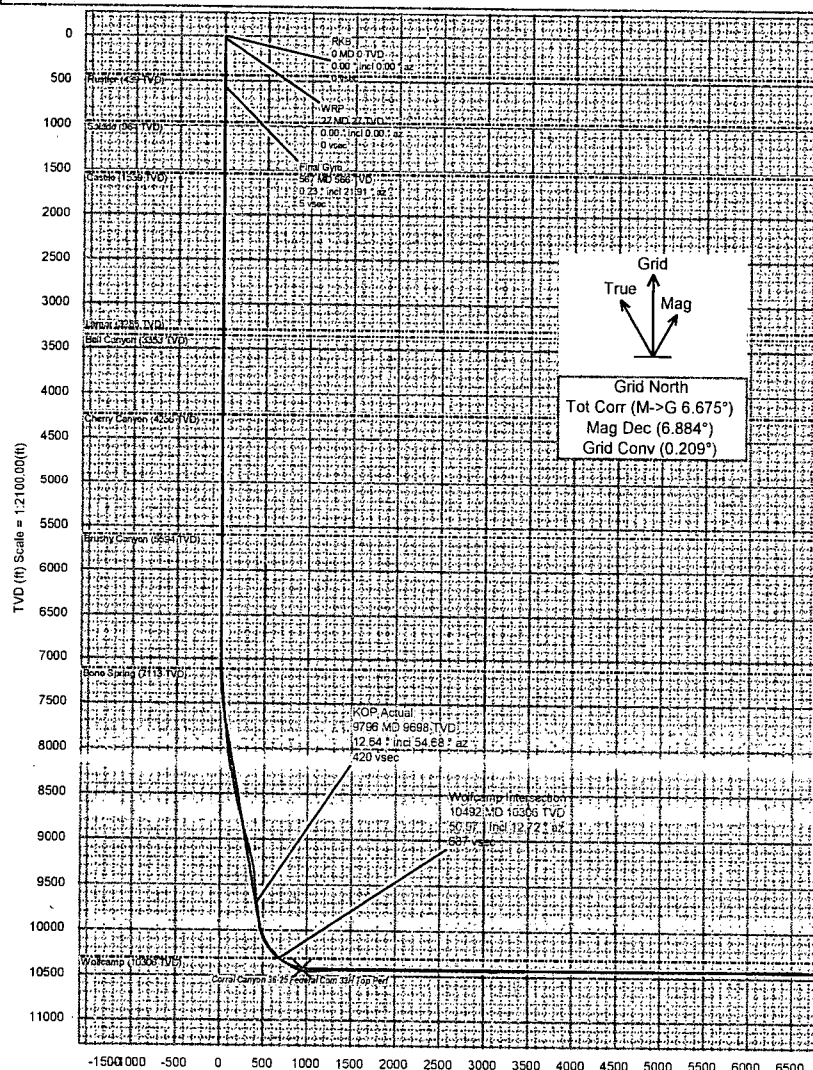


|                   |                                     |                         |                                         |
|-------------------|-------------------------------------|-------------------------|-----------------------------------------|
| Borehole:         | Well:                               | Field:                  | Structure:                              |
| Original Borehole | Corral Canyon 36-25 Federal Com 33H | NM Eddy County (NAD 83) | Oxy Corral Canyon 36-25 Federal Com 33H |

|                                                                 |                                                                 |                                                                   |
|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| Gravity & Magnetic Parameters                                   | Surface Location                                                | Miscellaneous                                                     |
| Model: IFR1 Dip: 59.894° Date: 31-Oct-2018                      | NAD83 New Mexico State Plane, Eastern Zone, US Feet             | Oxy Corral Canyon                                                 |
| MagDec: 6.884° FS: 48009nT Gravity FS: 998.45mg (0.80665 Based) | Lat: N 32 9 54.02 Northing: 423984.387US Grid Conv: 0.2026°     | Slot: 36-25 Federal Com 33H                                       |
|                                                                 | Lon: W 103 56 29.58 Easting: 662568.217US Scale Fact: 0.9992592 | TVD Ref: RKB=26.5'(3139ft above MSL)                              |
|                                                                 |                                                                 | Plan: Oxy Corral Canyon 36-25 Federal Com 33H RWD 0° - 20861ft MD |

## Critical Points

| Critical Point        | MD       | INCL  | AZIM   | TVD      | VSEC     | N(+)/S(-) | E(+)/W(-) | DLS   |
|-----------------------|----------|-------|--------|----------|----------|-----------|-----------|-------|
| RKB                   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00      | 0.00      |       |
| WRP                   | 26.50    | 0.00  | 0.00   | 26.50    | 0.00     | 0.00      | 0.00      | 0.00  |
| Final Gyro            | 566.50   | 0.23  | 21.91  | 566.47   | 5.08     | 5.08      | 0.18      | 0.61  |
| KOP Actual            | 9796.00  | 12.64 | 54.68  | 9697.51  | 419.69   | 386.57    | 562.06    | 2.73  |
| LL Cross              | 10376.75 | 44.28 | 20.03  | 10229.13 | 604.39   | 565.46    | 663.90    | 7.55  |
| Wolfcamp Intersection | 10491.58 | 50.97 | 12.72  | 10306.00 | 687.08   | 646.78    | 689.14    | 8.41  |
| Top Perf Cross        | 10786.00 | 78.70 | 357.89 | 10437.25 | 946.36   | 905.75    | 702.08    | 11.21 |
| Exit Target Box       | 12478.37 | 90.10 | 1.86   | 10432.14 | 2632.20  | 2593.69   | 718.14    | 2.35  |
| Enter Target Box      | 12664.77 | 89.91 | 357.35 | 10433.26 | 2818.15  | 2780.03   | 717.18    | 2.79  |
| Bottom Perf Cross     | 20707.55 | 88.20 | 358.48 | 10415.33 | 10834.50 | 10816.75  | 620.78    | 3.15  |
| Final MWD             | 20816.00 | 88.23 | 357.57 | 10419.08 | 10942.39 | 10925.07  | 616.93    | 0.84  |
| Proj to Bit           | 20861.00 | 88.23 | 357.57 | 10420.47 | 10987.13 | 10970.00  | 615.03    | 0.00  |



Vertical Section (ft) Azim = 3.45° Scale = 1:2100.00(ft) Origin = 0N/-S, 0E/-W

# Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD Survey Geodetic Report (Def Survey)



Report Date: November 20, 2018 - 06:37 AM  
Client: OXY  
Field: NM Eddy County (NAD 83)  
Structure / Slot: Oxy Corral Canyon 36-25 Federal Com 33H / Oxy Corral Canyon 36-25 Federal Com 33H  
Well: Corral Canyon 36-25 Federal Com 33H  
Borehole: Original Borehole  
UWI / API#: Unknown / 30-015-44643  
Survey Name: Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD  
Survey Date: October 09, 2018  
Tort / AHD / DDI / ERD Ratio: 349.668' / 11330.194 ft / 6.898' / 1.085  
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet  
Location Lat / Long: N 32° 9' 54.02255", W 103° 56' 29.57834"  
Location Grid N/E Y/X: N 423984.980 RUS, E 662568.210 RUS  
CRS Grid Convergence Angle: 0.2086°  
Grid Scale Factor: 0.99992592  
Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
Vertical Section Azimuth: 3.450° (Grid North)  
Vertical Section Origin: 0.000 ft, 0.000 ft  
TVD Reference Datum: RKB=26.5'  
TVD Reference Elevation: 3139.000 ft above MSL  
Seabed / Ground Elevation: 3112.500 ft above MSL  
Magnetic Declination: 6.884°  
Total Gravity Field Strength: 998.4504mg (9.80665 Based)  
Gravity Model: GARIM  
Total Magnetic Field Strength: 48009.000 nT  
Magnetic Dip Angle: 59.904°  
Declination Date: October 31, 2018  
Magnetic Declination Model: IFR1  
North Reference: Grid North  
Grid Convergence Used: 0.2086°  
Total Corr Mag North->Grid: 6.6754°  
North: Well Head  
Local Coord Referenced To: Well Head

| Comments   | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(ft/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|------------|------------|-------------|------------------|-------------|--------------|------------|------------|-------------------|--------------------|-------------------|-------------------------|--------------------------|
| RKB        | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A               | 423984.98          | 662568.21         | N 32° 9' 54.02"         | W 103° 56' 29.58"        |
| WRP        | 26.50      | 0.00        | 0.00             | 26.50       | 0.00         | 0.00       | 0.00       | 0.00              | 423984.98          | 662568.21         | N 32° 9' 54.02"         | W 103° 56' 29.58"        |
|            | 69.88      | 0.69        | 356.84           | 69.88       | 0.26         | 0.26       | -0.01      | 1.59              | 423985.24          | 662568.20         | N 32° 9' 54.03"         | W 103° 56' 29.58"        |
|            | 130.56     | 0.58        | 348.29           | 130.56      | 0.92         | 0.93       | -0.10      | 0.24              | 423985.91          | 662568.11         | N 32° 9' 54.03"         | W 103° 56' 29.58"        |
|            | 215.06     | 0.66        | 347.09           | 215.05      | 1.80         | 1.82       | -0.29      | 0.10              | 423986.80          | 662567.92         | N 32° 9' 54.04"         | W 103° 56' 29.58"        |
|            | 304.54     | 0.55        | 348.84           | 304.53      | 2.71         | 2.74       | -0.49      | 0.12              | 423987.72          | 662567.72         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 399.11     | 0.64        | 3.30             | 399.09      | 3.68         | 3.72       | -0.55      | 0.18              | 423988.70          | 662567.66         | N 32° 9' 54.06"         | W 103° 56' 29.58"        |
|            | 493.69     | 0.65        | 42.71            | 493.66      | 4.62         | 4.64       | -0.15      | 0.46              | 423989.62          | 662568.06         | N 32° 9' 54.07"         | W 103° 56' 29.58"        |
| Final Gyro | 566.50     | 0.23        | 21.91            | 566.47      | 5.08         | 5.08       | 0.18       | 0.61              | 423990.06          | 662568.39         | N 32° 9' 54.07"         | W 103° 56' 29.58"        |
|            | 622.00     | 0.22        | 70.01            | 621.97      | 5.23         | 5.22       | 0.32       | 0.33              | 423990.20          | 662568.53         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 714.00     | 0.03        | 27.63            | 713.97      | 5.32         | 5.30       | 0.50       | 0.22              | 423990.28          | 662568.71         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 806.00     | 0.03        | 160.75           | 805.97      | 5.32         | 5.30       | 0.52       | 0.06              | 423990.28          | 662568.73         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 899.00     | 0.07        | 27.12            | 898.97      | 5.35         | 5.32       | 0.55       | 0.10              | 423990.30          | 662568.76         | N 32° 9' 54.08"         | W 103° 56' 29.57"        |
|            | 991.00     | 0.03        | 186.17           | 990.97      | 5.38         | 5.35       | 0.58       | 0.11              | 423990.33          | 662568.79         | N 32° 9' 54.08"         | W 103° 56' 29.57"        |
|            | 1084.00    | 0.03        | 165.43           | 1083.97     | 5.33         | 5.30       | 0.58       | 0.01              | 423990.28          | 662568.79         | N 32° 9' 54.08"         | W 103° 56' 29.57"        |
|            | 1176.00    | 0.07        | 94.26            | 1175.97     | 5.30         | 5.27       | 0.64       | 0.07              | 423990.25          | 662568.85         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 1268.00    | 0.07        | 85.29            | 1267.97     | 5.31         | 5.28       | 0.75       | 0.01              | 423990.25          | 662568.96         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 1361.00    | 0.07        | 49.60            | 1360.97     | 5.36         | 5.32       | 0.85       | 0.05              | 423990.30          | 662569.06         | N 32° 9' 54.08"         | W 103° 56' 29.57"        |
|            | 1453.00    | 0.07        | 115.44           | 1452.97     | 5.38         | 5.33       | 0.95       | 0.08              | 423990.31          | 662569.16         | N 32° 9' 54.08"         | W 103° 56' 29.57"        |
|            | 1545.00    | 0.03        | 278.05           | 1544.97     | 5.36         | 5.31       | 0.97       | 0.11              | 423990.29          | 662569.18         | N 32° 9' 54.08"         | W 103° 56' 29.57"        |
|            | 1639.00    | 0.08        | 175.43           | 1638.97     | 5.29         | 5.25       | 0.95       | 0.10              | 423990.23          | 662569.16         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 1733.00    | 0.03        | 163.84           | 1732.97     | 5.21         | 5.16       | 0.97       | 0.05              | 423990.14          | 662569.18         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 1828.00    | 0.07        | 222.59           | 1827.97     | 5.14         | 5.09       | 0.93       | 0.06              | 423990.07          | 662569.14         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 1922.00    | 0.07        | 157.29           | 1921.97     | 5.04         | 5.00       | 0.92       | 0.08              | 423989.98          | 662569.13         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 2111.00    | 0.03        | 129.66           | 2110.97     | 4.91         | 4.86       | 1.00       | 0.02              | 423989.84          | 662569.21         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 2205.00    | 0.07        | 260.36           | 2204.97     | 4.88         | 4.83       | 0.96       | 0.10              | 423989.81          | 662569.17         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 2299.00    | 0.07        | 289.45           | 2298.97     | 4.88         | 4.84       | 0.85       | 0.04              | 423989.82          | 662569.06         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 2393.00    | 0.13        | 104.46           | 2392.97     | 4.88         | 4.83       | 0.90       | 0.21              | 423989.81          | 662569.11         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 2488.00    | 0.12        | 148.85           | 2487.97     | 4.78         | 4.72       | 1.06       | 0.10              | 423989.70          | 662569.27         | N 32° 9' 54.07"         | W 103° 56' 29.57"        |
|            | 2582.00    | 0.21        | 114.55           | 2581.97     | 4.63         | 4.57       | 1.26       | 0.14              | 423989.55          | 662569.47         | N 32° 9' 54.07"         | W 103° 56' 29.56"        |
|            | 2676.00    | 0.16        | 99.53            | 2675.97     | 4.56         | 4.47       | 1.55       | 0.07              | 423989.55          | 662569.47         | N 32° 9' 54.07"         | W 103° 56' 29.56"        |
|            | 2771.00    | 0.07        | 115.28           | 2770.97     | 4.52         | 4.43       | 1.73       | 0.10              | 423989.45          | 662569.76         | N 32° 9' 54.07"         | W 103° 56' 29.56"        |
|            | 2865.00    | 0.10        | 168.13           | 2864.97     | 4.42         | 4.32       | 1.80       | 0.09              | 423989.30          | 662569.94         | N 32° 9' 54.07"         | W 103° 56' 29.56"        |
|            | 2959.00    | 0.23        | 176.00           | 2958.97     | 4.16         | 4.05       | 1.83       | 0.14              | 423989.03          | 662570.01         | N 32° 9' 54.07"         | W 103° 56' 29.56"        |
|            | 3054.00    | 0.43        | 194.80           | 3053.97     | 3.62         | 3.52       | 1.75       | 0.24              | 423988.50          | 662570.04         | N 32° 9' 54.08"         | W 103° 56' 29.56"        |
|            | 3148.00    | 0.31        | 269.43           | 3147.97     | 3.25         | 3.17       | 1.41       | 0.49              | 423988.15          | 662569.96         | N 32° 9' 54.06"         | W 103° 56' 29.56"        |
|            | 3243.00    | 0.21        | 282.34           | 3242.97     | 3.26         | 3.21       | 0.98       | 0.12              | 423988.15          | 662569.62         | N 32° 9' 54.05"         | W 103° 56' 29.56"        |
|            | 3337.00    | 0.07        | 312.78           | 3336.96     | 3.33         | 3.28       | 0.77       | 0.16              | 423988.19          | 662569.19         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 3431.00    | 0.07        | 338.51           | 3430.96     | 3.41         | 3.38       | 0.71       | 0.03              | 423988.26          | 662568.98         | N 32° 9' 54.06"         | W 103° 56' 29.57"        |
|            | 3526.00    | 0.07        | 298.68           | 3525.96     | 3.49         | 3.46       | 0.64       | 0.05              | 423988.36          | 662568.92         | N 32° 9' 54.06"         | W 103° 56' 29.57"        |
|            | 3620.00    | 0.07        | 216.67           | 3619.96     | 3.47         | 3.44       | 0.55       | 0.10              | 423988.42          | 662568.85         | N 32° 9' 54.06"         | W 103° 56' 29.57"        |
|            | 3714.00    | 0.07        | 115.86           | 3713.96     | 3.40         | 3.37       | 0.57       | 0.11              | 423988.44          | 662568.76         | N 32° 9' 54.06"         | W 103° 56' 29.57"        |
|            | 3809.00    | 0.07        | 181.89           | 3808.96     | 3.32         | 3.29       | 0.62       | 0.08              | 423988.35          | 662568.78         | N 32° 9' 54.06"         | W 103° 56' 29.57"        |
|            | 3903.00    | 0.07        | 98.96            | 3902.96     | 3.25         | 3.22       | 0.68       | 0.10              | 423988.27          | 662568.83         | N 32° 9' 54.06"         | W 103° 56' 29.57"        |
|            | 3998.00    | 0.03        | 67.54            | 3997.96     | 3.26         | 3.22       | 0.76       | 0.05              | 423988.20          | 662568.89         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4092.00    | 0.07        | 225.54           | 4091.96     | 3.23         | 3.19       | 0.74       | 0.10              | 423988.20          | 662568.97         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4186.00    | 0.07        | 233.35           | 4185.96     | 3.23         | 3.12       | 0.74       | 0.10              | 423988.17          | 662568.95         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4281.00    | 0.07        | 137.02           | 4280.96     | 3.15         | 3.12       | 0.65       | 0.01              | 423988.09          | 662568.86         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4470.00    | 0.07        | 278.75           | 4469.96     | 3.07         | 3.04       | 0.64       | 0.11              | 423988.02          | 662568.85         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4658.00    | 0.07        | 137.12           | 4657.96     | 3.00         | 2.97       | 0.61       | 0.07              | 423987.95          | 662568.82         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4753.00    | 0.07        | 11.49            | 4752.96     | 2.93         | 2.90       | 0.57       | 0.07              | 423987.88          | 662568.78         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 4942.00    | 0.14        | 281.01           | 4941.96     | 2.95         | 2.92       | 0.62       | 0.13              | 423987.90          | 662568.83         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 5036.00    | 0.13        | 292.66           | 5035.96     | 3.10         | 3.08       | 0.42       | 0.08              | 423987.96          | 662568.63         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 5130.00    | 0.09        | 268.76           | 5129.96     | 3.15         | 3.14       | 0.21       | 0.03              | 423988.06          | 662568.42         | N 32° 9' 54.05"         | W 103° 56' 29.57"        |
|            | 5225.00    | 0.08        | 268.76           | 5129.96     | 3.17         | 3.18       | 0.04       | 0.06              | 423988.12          | 662568.25         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5320.00    | 0.08        | 294.91           | 5224.96     | 3.19         | 3.20       | -0.10      | 0.04              | 423988.16          | 662568.42         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5320.00    | 0.07        | 196.12           | 5319.96     | 3.16         | 3.18       | -0.17      | 0.12              | 423988.18          | 662568.11         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5414.00    | 0.07        | 335.71           | 5413.96     | 3.16         | 3.17       | -0.21      | 0.14              | 423988.16          | 662568.04         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5508.00    | 0.03        | 347.92           | 5507.96     | 3.23         | 3.25       | -0.24      | 0.04              | 423988.15          | 662568.00         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5603.00    | 0.03        | 337.57           | 5602.96     | 3.28         | 3.30       | -0.26      | 0.01              | 423988.23          | 662567.97         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5697.00    | 0.12        | 232.51           | 5696.96     | 3.28         | 3.30       | -0.26      | 0.01              | 423988.28          | 662567.95         | N 32° 9' 54.06"         | W 103° 56' 29.58"        |
|            | 5792.00    | 0.10        | 297.98           | 5791.96     | 3.23         | 3.26       | -0.34      | 0.14              | 423988.24          | 662567.87         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5886.00    | 0.09        | 215.34           | 5885.96     | 3.20         | 3.24       | -0.50      | 0.13              | 423988.24          | 662567.87         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 5981.00    | 0.12        | 249.64           | 5980.96     | 3.17         | 3.22       | -0.61      | 0.13              | 423988.22          | 662567.71         | N 32° 9' 54.05"         | W 103° 56' 29.58"        |
|            | 6075.00    | 0.07        | 265.16           | 6074.96     | 3.17         | 3.22       | -0.61      | 0.13              | 423988.20          | 662567.60         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6169.00    | 0.07        | 249.64           | 5980.96     | 3.07         | 3.12       | -0.75      | 0.07              | 423988.10          | 662567.46         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6264.00    | 0.07        | 265.16           | 6074.96     | 3.02         | 3.08       | -0.90      | 0.06              | 423988.06          | 662567.31         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6358.00    | 0.07        | 238.74           | 6168.96     | 2.98         | 3.05       | -1.00      | 0.03              | 423988.06          | 662567.46         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6452.00    | 0.07        | 288.89           | 6263.96     | 2.96         | 3.04       | -1.11      | 0.06              | 423988.02          | 662567.31         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6547.00    | 0.07        | 138.11           | 6357.96     | 2.94         | 3.01       | -1.12      | 0.14              | 423988.02          | 662567.10         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6640.00    | 0.07        | 193.05           | 6451.96     | 2.84         | 2.91       | -1.10      | 0.07              | 423987.99          | 662567.09         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6735.00    | 0.07        | 145.76           | 6546.96     | 2.74         | 2.81       | -1.08      | 0.06              | 423987.89          | 662567.11         | N 32° 9' 54.05"         | W 103° 56' 29.59"        |
|            | 6829.00    | 0.12        | 131.14           | 6639.96     | 2.66         | 2.73       | -1.01      | 0.02              |                    |                   |                         |                          |

| Comments              | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|-----------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                       | 7489.00    | 7.96        | 59.25            | 7486.05     | 32.78        | 30.36      | 41.13      | 0.25             | 424015.34          | 662609.33         | N 32° 9' 54.32" W       | 103° 56' 28.10"          |
|                       | 7584.00    | 8.54        | 60.79            | 7580.06     | 40.28        | 37.16      | 52.94      | 0.65             | 424022.14          | 662621.14         | N 32° 9' 54.39" W       | 103° 56' 28.96"          |
|                       | 7678.00    | 9.83        | 63.56            | 7672.86     | 48.05        | 44.14      | 66.21      | 1.45             | 424029.12          | 662634.42         | N 32° 9' 54.46" W       | 103° 56' 28.81"          |
|                       | 7772.00    | 11.01       | 63.45            | 7765.31     | 56.53        | 51.73      | 81.43      | 1.26             | 424036.70          | 662649.63         | N 32° 9' 54.53" W       | 103° 56' 28.63"          |
|                       | 7867.00    | 11.41       | 60.30            | 7858.49     | 66.21        | 60.44      | 97.71      | 0.77             | 424045.41          | 662665.91         | N 32° 9' 54.62" W       | 103° 56' 28.44"          |
|                       | 7961.00    | 11.16       | 56.76            | 7960.10     | 80.09        | 73.09      | 118.40     | 0.59             | 424058.07          | 662686.60         | N 32° 9' 54.74" W       | 103° 56' 28.20"          |
|                       | 8067.00    | 14.95       | 60.12            | 8073.60     | 92.45        | 84.36      | 136.91     | 4.02             | 424069.33          | 662705.11         | N 32° 9' 54.85" W       | 103° 56' 27.98"          |
|                       | 8162.00    | 16.44       | 58.18            | 8165.06     | 106.94       | 97.55      | 158.96     | 1.66             | 424082.53          | 662727.16         | N 32° 9' 54.98" W       | 103° 56' 27.73"          |
|                       | 8276.00    | 17.91       | 58.37            | 8254.86     | 122.93       | 112.15     | 182.57     | 1.56             | 424097.12          | 662750.77         | N 32° 9' 55.13" W       | 103° 56' 27.45"          |
|                       | 8370.00    | 20.50       | 61.18            | 8343.63     | 140.03       | 127.66     | 209.30     | 2.92             | 424112.63          | 662777.50         | N 32° 9' 55.28" W       | 103° 56' 27.14"          |
|                       | 8465.00    | 17.75       | 61.15            | 8433.37     | 156.65       | 142.67     | 236.57     | 2.89             | 424127.64          | 662804.76         | N 32° 9' 55.43" W       | 103° 56' 26.82"          |
|                       | 8527.00    | 20.16       | 57.27            | 8492.01     | 168.01       | 153.01     | 253.83     | 4.38             | 424137.98          | 662822.03         | N 32° 9' 55.53" W       | 103° 56' 26.62"          |
|                       | 8621.00    | 20.73       | 50.62            | 8580.10     | 188.89       | 172.33     | 280.32     | 2.54             | 424157.30          | 662848.51         | N 32° 9' 55.72" W       | 103° 56' 26.31"          |
|                       | 8716.00    | 17.74       | 44.75            | 8669.80     | 211.20       | 193.28     | 303.52     | 3.74             | 424178.25          | 662871.70         | N 32° 9' 55.92" W       | 103° 56' 26.04"          |
|                       | 8810.00    | 19.29       | 41.67            | 8758.93     | 234.15       | 215.05     | 323.92     | 1.95             | 424200.02          | 662892.11         | N 32° 9' 56.14" W       | 103° 56' 25.80"          |
|                       | 8905.00    | 18.78       | 40.61            | 8848.73     | 258.87       | 238.38     | 344.31     | 0.65             | 424223.34          | 662912.49         | N 32° 9' 56.37" W       | 103° 56' 25.56"          |
|                       | 8950.00    | 18.85       | 40.62            | 8891.33     | 270.24       | 249.40     | 353.76     | 0.16             | 424234.36          | 662921.94         | N 32° 9' 56.48" W       | 103° 56' 25.45"          |
|                       | 8999.00    | 19.53       | 41.67            | 8937.61     | 282.98       | 261.53     | 364.36     | 1.56             | 424246.49          | 662932.54         | N 32° 9' 56.60" W       | 103° 56' 25.33"          |
|                       | 9044.00    | 19.54       | 42.21            | 8980.02     | 294.76       | 272.72     | 374.41     | 0.40             | 424257.68          | 662942.59         | N 32° 9' 56.71" W       | 103° 56' 25.21"          |
|                       | 9094.00    | 19.29       | 43.34            | 9027.17     | 307.61       | 284.92     | 385.70     | 0.90             | 424269.88          | 662953.88         | N 32° 9' 56.83" W       | 103° 56' 25.08"          |
|                       | 9139.00    | 20.02       | 45.47            | 9069.55     | 319.04       | 295.73     | 396.29     | 2.27             | 424280.68          | 662964.47         | N 32° 9' 56.93" W       | 103° 56' 24.96"          |
|                       | 9188.00    | 21.07       | 49.74            | 9115.44     | 331.36       | 307.30     | 408.99     | 3.73             | 424292.26          | 662977.17         | N 32° 9' 57.05" W       | 103° 56' 24.81"          |
|                       | 9283.00    | 19.36       | 54.38            | 9204.59     | 353.08       | 327.51     | 434.83     | 2.47             | 424312.47          | 662997.17         | N 32° 9' 57.25" W       | 103° 56' 24.51"          |
|                       | 9377.00    | 18.59       | 60.55            | 9294.49     | 371.04       | 343.95     | 460.54     | 2.28             | 424328.91          | 663003.01         | N 32° 9' 57.41" W       | 103° 56' 24.21"          |
|                       | 9472.00    | 15.87       | 67.92            | 9384.23     | 384.87       | 356.29     | 485.77     | 3.67             | 424341.24          | 663028.72         | N 32° 9' 57.41" W       | 103° 56' 24.21"          |
|                       | 9566.00    | 15.35       | 74.76            | 9474.77     | 394.40       | 364.39     | 509.69     | 2.03             | 424349.34          | 663053.95         | N 32° 9' 57.53" W       | 103° 56' 23.91"          |
|                       | 9660.00    | 15.28       | 70.26            | 9565.43     | 403.26       | 371.84     | 533.35     | 1.27             | 424356.79          | 663077.86         | N 32° 9' 57.61" W       | 103° 56' 23.63"          |
|                       | 9755.00    | 13.12       | 59.21            | 9657.54     | 414.26       | 381.59     | 554.41     | 3.64             | 424366.54          | 663101.52         | N 32° 9' 57.68" W       | 103° 56' 23.36"          |
|                       | 9796.00    | 12.64       | 54.68            | 9697.51     | 419.69       | 386.57     | 562.06     | 2.73             | 424371.52          | 663122.57         | N 32° 9' 57.78" W       | 103° 56' 23.11"          |
|                       | 9948.00    | 10.34       | 33.20            | 9846.52     | 441.96       | 407.81     | 583.11     | 3.17             | 424392.56          | 663130.23         | N 32° 9' 57.83" W       | 103° 56' 23.02"          |
|                       | 10041.00   | 14.21       | 33.83            | 9937.38     | 459.06       | 424.08     | 594.04     | 4.16             | 424409.03          | 663151.28         | N 32° 9' 58.03" W       | 103° 56' 22.78"          |
|                       | 10136.00   | 22.98       | 32.85            | 10027.33    | 485.33       | 449.40     | 610.63     | 9.24             | 424434.34          | 663162.21         | N 32° 9' 58.20" W       | 103° 56' 22.65"          |
|                       | 10230.00   | 27.59       | 27.05            | 10112.32    | 521.29       | 484.22     | 630.49     | 5.56             | 424469.17          | 663178.79         | N 32° 9' 58.45" W       | 103° 56' 22.46"          |
|                       | 10324.00   | 40.36       | 21.10            | 10190.13    | 570.45       | 532.22     | 651.44     | 14.02            | 424517.16          | 663198.66         | N 32° 9' 58.79" W       | 103° 56' 22.22"          |
|                       | 10376.75   | 44.28       | 20.03            | 10229.13    | 604.39       | 565.46     | 663.90     | 7.55             | 424550.40          | 663219.60         | N 32° 9' 59.27" W       | 103° 56' 21.93"          |
|                       | 10419.00   | 47.42       | 19.28            | 10258.55    | 633.50       | 594.01     | 674.09     | 7.55             | 424578.94          | 663242.25         | N 32° 9' 59.88" W       | 103° 56' 21.71"          |
| Wellcamp Intersection | 10491.58   | 50.97       | 12.72            | 10306.00    | 687.06       | 646.78     | 689.14     | 8.41             | 424631.71          | 663257.29         | N 32° 10' 0.40" W       | 103° 56' 21.53"          |
|                       | 10513.00   | 52.09       | 10.91            | 10319.33    | 703.67       | 663.20     | 692.57     | 8.41             | 424648.13          | 663260.73         | N 32° 10' 0.56" W       | 103° 56' 21.49"          |
|                       | 10608.00   | 58.91       | 4.00             | 10373.15    | 781.66       | 740.73     | 702.52     | 9.35             | 424725.65          | 663270.68         | N 32° 10' 1.33" W       | 103° 56' 21.37"          |
|                       | 10702.00   | 69.33       | 358.81           | 10414.15    | 865.02       | 825.13     | 704.42     | 12.14            | 424810.04          | 663272.58         | N 32° 10' 2.16" W       | 103° 56' 21.35"          |
| Top Perf Cross        | 10786.00   | 78.70       | 357.89           | 10437.25    | 946.36       | 905.75     | 702.08     | 11.21            | 424890.66          | 663270.24         | N 32° 10' 2.96" W       | 103° 56' 21.37"          |
|                       | 10797.00   | 79.93       | 357.78           | 10439.29    | 957.12       | 916.55     | 701.68     | 11.21            | 424901.46          | 663269.83         | N 32° 10' 3.07" W       | 103° 56' 21.38"          |
|                       | 10892.00   | 92.33       | 354.06           | 10445.69    | 1050.88      | 1010.89    | 694.92     | 13.62            | 424995.80          | 663263.08         | N 32° 10' 4.00" W       | 103° 56' 21.45"          |
|                       | 10954.00   | 94.95       | 353.68           | 10441.76    | 1111.89      | 1072.41    | 688.32     | 4.27             | 425057.31          | 663256.48         | N 32° 10' 4.61" W       | 103° 56' 21.53"          |
|                       | 11073.00   | 91.60       | 356.14           | 10434.96    | 1229.35      | 1190.72    | 677.78     | 3.49             | 425175.61          | 663245.94         | N 32° 10' 5.78" W       | 103° 56' 21.64"          |
|                       | 11264.00   | 90.19       | 358.60           | 10431.97    | 1419.23      | 1381.48    | 669.02     | 1.48             | 425366.35          | 663237.18         | N 32° 10' 7.67" W       | 103° 56' 21.74"          |
|                       | 11358.00   | 88.57       | 355.91           | 10432.99    | 1512.67      | 1475.35    | 664.52     | 3.34             | 425460.22          | 663232.68         | N 32° 10' 8.60" W       | 103° 56' 21.79"          |
|                       | 11453.00   | 89.71       | 358.51           | 10434.42    | 1607.09      | 1570.22    | 659.50     | 2.99             | 425555.08          | 663228.06         | N 32° 10' 9.54" W       | 103° 56' 21.83"          |
|                       | 11548.00   | 90.43       | 4.12             | 10434.30    | 1701.98      | 1665.16    | 662.08     | 5.95             | 425650.01          | 663230.24         | N 32° 10' 10.48" W      | 103° 56' 21.81"          |
|                       | 11642.00   | 90.39       | 3.52             | 10433.63    | 1795.98      | 1758.94    | 666.34     | 0.64             | 425743.79          | 663236.50         | N 32° 10' 11.40" W      | 103° 56' 21.73"          |
|                       | 11737.00   | 89.05       | 2.65             | 10434.09    | 1890.97      | 1853.80    | 673.45     | 1.68             | 425838.64          | 663241.61         | N 32° 10' 12.34" W      | 103° 56' 21.67"          |
|                       | 11831.00   | 89.57       | 3.66             | 10435.22    | 1984.96      | 1947.65    | 678.63     | 1.21             | 425932.48          | 663246.79         | N 32° 10' 13.27" W      | 103° 56' 21.60"          |
|                       | 11925.00   | 91.56       | 5.38             | 10434.30    | 2078.93      | 2041.35    | 686.03     | 2.80             | 426028.17          | 663254.19         | N 32° 10' 14.20" W      | 103° 56' 21.51"          |
|                       | 12020.00   | 89.78       | 4.33             | 10433.19    | 2173.89      | 2135.99    | 694.07     | 2.18             | 426120.81          | 663262.23         | N 32° 10' 15.13" W      | 103° 56' 21.41"          |
|                       | 12114.00   | 88.74       | 2.46             | 10434.40    | 2267.88      | 2229.82    | 699.64     | 2.28             | 426214.63          | 663267.80         | N 32° 10' 16.06" W      | 103° 56' 21.34"          |
|                       | 12209.00   | 90.64       | 2.66             | 10434.91    | 2362.86      | 2324.72    | 703.88     | 2.01             | 426309.52          | 663272.04         | N 32° 10' 17.00" W      | 103° 56' 21.29"          |
|                       | 12398.00   | 90.70       | 3.65             | 10432.70    | 2551.84      | 2513.41    | 714.28     | 0.52             | 426498.20          | 663282.44         | N 32° 10' 18.87" W      | 103° 56' 21.16"          |
| Exit Target Box       | 12478.37   | 90.10       | 1.86             | 10432.14    | 2632.20      | 2593.69    | 718.14     | 2.35             | 426578.97          | 663286.30         | N 32° 10' 19.66" W      | 103° 56' 21.11"          |
|                       | 12587.00   | 89.29       | 359.43           | 10432.72    | 2740.69      | 2702.30    | 719.36     | 2.35             | 426687.07          | 663287.52         | N 32° 10' 20.74" W      | 103° 56' 21.09"          |
| Enter Target Box      | 12664.77   | 89.91       | 357.35           | 10433.26    | 2818.15      | 2780.03    | 717.18     | 2.79             | 426764.80          | 663285.33         | N 32° 10' 21.51" W      | 103° 56' 21.12"          |
|                       | 12682.00   | 90.05       | 356.89           | 10433.27    | 2835.28      | 2797.24    | 716.31     | 2.79             | 426782.01          | 663284.47         | N 32° 10' 21.68" W      | 103° 56' 21.13"          |
|                       | 12777.00   | 90.33       | 357.52           | 10432.95    | 2929.71      | 2892.12    | 711.68     | 0.73             | 426876.88          | 663279.83         | N 32° 10' 22.61" W      | 103° 56' 21.18"          |
|                       | 12872.00   | 87.85       | 356.32           | 10434.46    | 3024.07      | 2986.97    | 706.58     | 2.90             | 426971.72          | 663274.73         | N 32° 10' 23.55" W      | 103° 56' 21.23"          |
|                       | 12966.00   | 90.39       | 356.47           | 10435.91    | 3117.34      | 3080.76    | 700.67     | 2.71             | 427065.51          | 663268.82         | N 32° 10' 24.48" W      | 103° 56' 21.30"          |
|                       | 13061.00   | 91.53       | 358.18           | 10434.31    | 3211.78      | 3175.64    | 696.23     | 2.16             | 427160.38          | 663264.39         | N 32° 10' 25.42" W      | 103° 56' 21.34"          |
|                       | 13249.00   | 89.95       | 356.21           | 10431.89    | 3398.63      | 3363.38    | 687.03     | 1.34             | 427348.11          | 663255.19         | N 32° 10' 26.22" W      | 103° 56' 21.44"          |
|                       | 13344.00   | 90.26       | 358.76           | 10431.71    | 3493.11      | 3458.28    | 682.87     | 2.70             | 427443.00          | 663251.02         | N 32° 10' 28.22" W      | 103° 56' 21.49"          |
|                       | 13533.00   | 90.50       | 358.92           | 10430.46    | 3681.49      | 3647.24    | 679.04     | 0.15             | 427631.94          | 663245.48         | N 32° 10' 30.09" W      | 103° 56' 21.52"          |
|                       | 13627.00   | 90.91       | 358.98           | 10429.30    | 3775.20      | 3741.22    | 677.32     | 0.44             | 427725.91          | 663238.05         | N 32° 10' 32.89" W      | 103° 56' 21.61"          |
|                       | 13816.00   | 88.23       | 357.12           | 10430.72    | 3963.33      | 3903.08    | 670.89     | 1.73             | 427914.76          | 663237.79         | N 32° 10' 33.83" W      | 103° 56' 21.62"          |
|                       | 13911.00   | 90.19       | 1.36             | 10432.03    | 4058.04      | 4025.03    | 669.63     | 4.92             | 428009.71          | 663240.58         | N 32° 10' 34.77" W      | 103° 56' 21.58"          |
|                       | 14006.00   | 90.46       | 2.01             | 10431.49    | 4152.99      | 4119.99    | 672.42     | 0.74             | 428104.66          | 663243.70         | N 32° 10' 35.70" W      | 103° 56' 21.54"          |
|                       | 14100.00   | 90.70       | 1.79             | 10430.54    | 4246.95      | 4213.93    | 675.54     | 0.35             | 428198.59          | 663245.15         | N 32° 10' 36.64" W      | 103° 56' 21.52"          |
|                       | 14195.00   | 88.09       | 359.96           | 10431.54    | 4341.84      | 4308.91    | 676.99     | 3.36             | 428293.56          | 663245.15         | N 32° 10' 37.58" W      | 103° 56' 21.52"          |
|                       | 14290.00   | 90.98       | 0.06</           |             |              |            |            |                  |                    |                   |                         |                          |

| Comments             | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|----------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                      | 17885.00   | 90.81       | 358.60           | 10422.22    | 8021.34      | 7995.96    | 662.48     | 2.50             | 431980.34          | 663230.64         | N 32 11 13.12 W         | 103 56 21.53             |
|                      | 17979.00   | 90.53       | 359.87           | 10421.12    | 8115.08      | 8089.95    | 661.22     | 1.38             | 432074.31          | 663229.38         | N 32 11 14.05 W         | 103 56 21.54             |
|                      | 18074.00   | 87.99       | 359.22           | 10422.34    | 8209.84      | 8184.93    | 660.47     | 2.76             | 432169.29          | 663228.63         | N 32 11 14.99 W         | 103 56 21.55             |
|                      | 18169.00   | 89.81       | 356.75           | 10424.17    | 8304.38      | 8279.84    | 657.13     | 3.23             | 432264.19          | 663225.29         | N 32 11 15.93 W         | 103 56 21.58             |
|                      | 18264.00   | 90.29       | 357.50           | 10424.09    | 8398.80      | 8374.72    | 652.36     | 0.94             | 432359.06          | 663220.52         | N 32 11 16.87 W         | 103 56 21.63             |
|                      | 18453.00   | 88.02       | 355.86           | 10426.87    | 8586.44      | 8563.36    | 641.42     | 1.48             | 432547.69          | 663209.58         | N 32 11 18.74 W         | 103 56 21.75             |
|                      | 18548.00   | 90.53       | 357.26           | 10428.07    | 8680.74      | 8658.18    | 635.72     | 3.03             | 432642.50          | 663203.88         | N 32 11 19.67 W         | 103 56 21.81             |
|                      | 18642.00   | 89.02       | 358.35           | 10428.44    | 8774.28      | 8752.10    | 632.12     | 1.98             | 432736.42          | 663200.28         | N 32 11 20.60 W         | 103 56 21.85             |
|                      | 18736.00   | 90.70       | 0.06             | 10428.67    | 8868.01      | 8846.09    | 630.82     | 2.55             | 432830.39          | 663198.98         | N 32 11 21.53 W         | 103 56 21.86             |
|                      | 18831.00   | 90.84       | 359.53           | 10427.40    | 8962.81      | 8941.08    | 630.48     | 0.58             | 432925.38          | 663198.64         | N 32 11 22.47 W         | 103 56 21.86             |
|                      | 19020.00   | 91.15       | 1.00             | 10424.11    | 9151.49      | 9130.04    | 631.35     | 0.79             | 433114.33          | 663199.51         | N 32 11 24.34 W         | 103 56 21.84             |
|                      | 19114.00   | 89.40       | 2.19             | 10423.66    | 9245.43      | 9224.00    | 633.97     | 2.25             | 433208.28          | 663202.13         | N 32 11 25.27 W         | 103 56 21.81             |
|                      | 19209.00   | 90.36       | 2.06             | 10423.86    | 9340.40      | 9318.93    | 637.49     | 1.02             | 433303.20          | 663205.65         | N 32 11 26.21 W         | 103 56 21.77             |
|                      | 19303.00   | 87.99       | 0.23             | 10425.22    | 9434.31      | 9412.89    | 639.37     | 3.19             | 433397.16          | 663207.53         | N 32 11 27.14 W         | 103 56 21.74             |
|                      | 19397.00   | 92.35       | 2.37             | 10424.94    | 9528.21      | 9506.84    | 641.50     | 5.17             | 433491.10          | 663209.66         | N 32 11 28.07 W         | 103 56 21.71             |
|                      | 19492.00   | 89.60       | 1.46             | 10423.32    | 9623.16      | 9601.76    | 644.67     | 3.05             | 433586.01          | 663212.83         | N 32 11 29.01 W         | 103 56 21.67             |
|                      | 19587.00   | 90.29       | 359.99           | 10423.44    | 9718.08      | 9696.74    | 646.63     | 0.91             | 433680.98          | 663214.79         | N 32 11 29.95 W         | 103 56 21.64             |
|                      | 19681.00   | 89.71       | 359.40           | 10422.99    | 9811.95      | 9790.74    | 647.36     | 0.97             | 433774.97          | 663215.52         | N 32 11 30.88 W         | 103 56 21.63             |
|                      | 19775.00   | 91.46       | 358.38           | 10422.02    | 9905.75      | 9884.73    | 646.86     | 0.88             | 433868.96          | 663215.02         | N 32 11 31.81 W         | 103 56 21.63             |
|                      | 19870.00   | 90.70       | 357.62           | 10420.24    | 10000.44     | 9979.71    | 645.02     | 2.13             | 433963.93          | 663213.18         | N 32 11 32.75 W         | 103 56 21.65             |
|                      | 19964.00   | 89.91       | 357.60           | 10419.74    | 10094.02     | 10073.64   | 641.99     | 0.95             | 434057.85          | 663210.15         | N 32 11 33.68 W         | 103 56 21.68             |
|                      | 20059.00   | 89.26       | 357.62           | 10420.43    | 10188.54     | 10168.56   | 638.19     | 0.94             | 434152.77          | 663206.35         | N 32 11 34.62 W         | 103 56 21.72             |
|                      | 20154.00   | 91.29       | 357.96           | 10419.98    | 10283.03     | 10263.47   | 634.15     | 0.70             | 434247.67          | 663202.31         | N 32 11 35.56 W         | 103 56 21.76             |
|                      | 20248.00   | 91.84       | 358.64           | 10417.38    | 10376.57     | 10357.40   | 630.54     | 2.19             | 434341.59          | 663198.70         | N 32 11 36.49 W         | 103 56 21.80             |
|                      | 20343.00   | 89.29       | 358.59           | 10416.44    | 10471.15     | 10452.32   | 627.74     | 0.90             | 434436.50          | 663195.90         | N 32 11 37.43 W         | 103 56 21.83             |
|                      | 20438.00   | 91.46       | 358.71           | 10415.83    | 10565.80     | 10547.28   | 625.44     | 2.68             | 434531.46          | 663193.60         | N 32 11 38.37 W         | 103 56 21.85             |
|                      | 20532.00   | 90.36       | 359.80           | 10414.32    | 10659.46     | 10641.24   | 623.23     | 2.31             | 434625.42          | 663191.39         | N 32 11 39.30 W         | 103 56 21.88             |
|                      | 20627.00   | 88.20       | 358.48           | 10415.33    | 10754.19     | 10736.22   | 621.99     | 1.63             | 434720.39          | 663190.15         | N 32 11 40.24 W         | 103 56 21.89             |
| Bottom Perf<br>Cross | 20707.55   |             |                  |             |              |            |            |                  |                    |                   |                         |                          |
|                      | 20722.00   | 87.81       | 358.24           | 10415.84    | 10848.89     | 10831.19   | 620.37     | 3.15             | 434800.91          | 663188.94         | N 32 11 41.03 W         | 103 56 21.90             |
| Final MWD            | 20816.00   | 88.23       | 357.57           | 10419.08    | 10942.39     | 10925.07   | 616.93     | 0.84             | 434809.21          | 663185.10         | N 32 11 42.11 W         | 103 56 21.94             |
| Proj to Bit          | 20861.00   | 88.23       | 357.57           | 10420.47    | 10987.13     | 10970.00   | 615.03     | 0.00             | 434954.15          | 663183.19         | N 32 11 42.55 W         | 103 56 21.96             |

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
Survey Program:

| Description | Part | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size | Casing Diameter<br>(in) | Survey Tool Type         | Borehole / Survey                                                                     |
|-------------|------|-----------------|---------------|------------------|-----------|-------------------------|--------------------------|---------------------------------------------------------------------------------------|
|             | 1    | 0.000           | 26.500        | 1/98.425         | 30.000    | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Corral<br>Canyon 36-25 Federal Com 33H<br>MWD 0' - 20861ft MD |
|             | 1    | 26.500          | 26.500        | Act Stns         | 30.000    | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Corral<br>Canyon 36-25 Federal Com 33H<br>MWD 0' - 20861ft MD |
|             | 1    | 26.500          | 566.500       | Act Stns         | 30.000    | 30.000                  | NAL_NSG+MSHOT            | Original Borehole / Oxy Corral<br>Canyon 36-25 Federal Com 33H                        |
|             | 1    | 566.500         | 9796.000      | Act Stns         | 30.000    | 30.000                  | NAL_MWD_IFR1+MS          | Original Borehole / Oxy Corral<br>Canyon 36-25 Federal Com 33H                        |
|             | 1    | 9796.000        | 10136.000     | Act Stns         | 30.000    | 30.000                  | NAL_MWD_PLUS_0.5_DEG     | Original Borehole / Oxy Corral<br>Canyon 36-25 Federal Com 33H                        |
|             | 1    | 10136.000       | 20861.000     | Act Stns         | 30.000    | 30.000                  | NAL_MWD_IFR1+MS          | Original Borehole / Oxy Corral<br>Canyon 36-25 Federal Com 33H                        |

...Original Borehole/Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD