<u>District I</u> ... 1625 N Freitch Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St Francis Dr , Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** Department

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

Form C-144 CLEZ July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

| environment. Nor does approval relieve the operator of its responsibility to comply with any | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|-------------------------------|--|--|--|--|--|
| Operator: COG OPERATING LLC OGRID | #: 2291 ; | 37 | | | | | | |
| Address: 550 WEST TEXAS, SUITE 100 MIDLAND, TX 79701 | | | | | | | | |
| Facility or well name: PINTO "36" FEE #2H | | | | | | | | |
| API Number: 30-015- 39969 OCD Permit 1 | Number: 2 | 12579 | | | | | | |
| U/L or Qtr/Qtr <u>UL N</u> Section <u>36</u> Township <u>18S</u> Rang | 25E_ | _County: _ | <u>Eddy</u> | | | | | |
| Center of Proposed Design: Latitude N/A Longitude | <u>N/A</u> | | NAD: □1927 □ 1983 | | | | | |
| Surface Owner: Federal State Private Tribal Trust or Indian Allotment | | | | | | | | |
| 2. Closed-loop System: Subsection H of 19.15.17.11 NMAC Operation: ☑ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A ☐ Above Ground Steel Tanks or ☑ Haul-off Bins | | | | | | | | |
| 3. Signs: Subsection C of 19.15.17.11 NMAC | | | RECEIVED | | | | | |
| 12"x 24", 2" lettering, providing Operator's name, site location, and emergency tele | nhone numbers | | EED 9 4 2012 | | | | | |
| ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.3.103 NMAC | | | | | | | | |
| 4. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of | 0.15.17.0 NN.44 | | ARTESIA | | | | | |
| attached. □ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 1 □ Closure Plan (Please complete Box 5) - based upon the appropriate requirements □ Previously Approved Design (attach copy of design) API Number: □ Previously Approved Operating and Maintenance Plan API Number: | of Subsection | C of 19.15.17 | 7.9 NMAC and 19.15.17.13 NMAC | | | | | |
| S. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste Instructions: Please indentify the facility or facilities for the disposal of liquids, drill facilities are required. | | | | | | | | |
| | osal Facility Per | | | | | | | |
| Disposal Facility Name: GM INC Disposal Facility Permit Number: 711-019-001 Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No | | | | | | | | |
| Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate rec Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection | 19.15.17.13 NN | ИAC | f 19.15.17.13 NMAC | | | | | |
| Operator Application Certification: | | | | | | | | |
| I hereby certify that the information submitted with this application is true, accurate a | d complete to the | ne best of my | knowledge and belief. | | | | | |
| | PE | RMITTING | TECH | | | | | |
| Signature: Kacic Connally | Date: | 12/09/ | 2011 | | | | | |
| e-mail address: kconnally@eoncho.com | Telephone: | 432- | 685-4304 | | | | | |
| | | | | | | | | |

| OCD Approval: Permit Application (including closure plan) Closure P | lan (only) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| OCD Representative Signature: | Approval Date: <u>03/05/2012</u> |
| Title: DIST R SCOWIST | OCD Permit Number: 212579 |
| 8. Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of a section of the form until an approved closure plan has been obtained and the closure plan h | to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this |
| 9. | |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drie two facilities were utilized. | |
| Disposal Facility Name. | Disposal Facility Permit Number: |
| Disposal Facility Name: | |
| Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No | |
| Required for impacted areas which will not be used for future service and operated. Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | ions: |
| 10. Operator Closure Certification: | |
| I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirer | |
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |
| | |

Closed Loop Operation & Maintenance Procedure

All drilling fluid circulated over shaker(s) with cuttings discharged into roll off container.

Fluid and fines below shaker(s) are circulated with transfer pump through centrifuge(s) or solids separator with cuttings and fines discharged into roll off container.

Fluid is continuously re-circulated through equipment with polymer added to aid separation of cutting fines.

Roll off containers are lined and de-watered with fluids re-circulated into system.

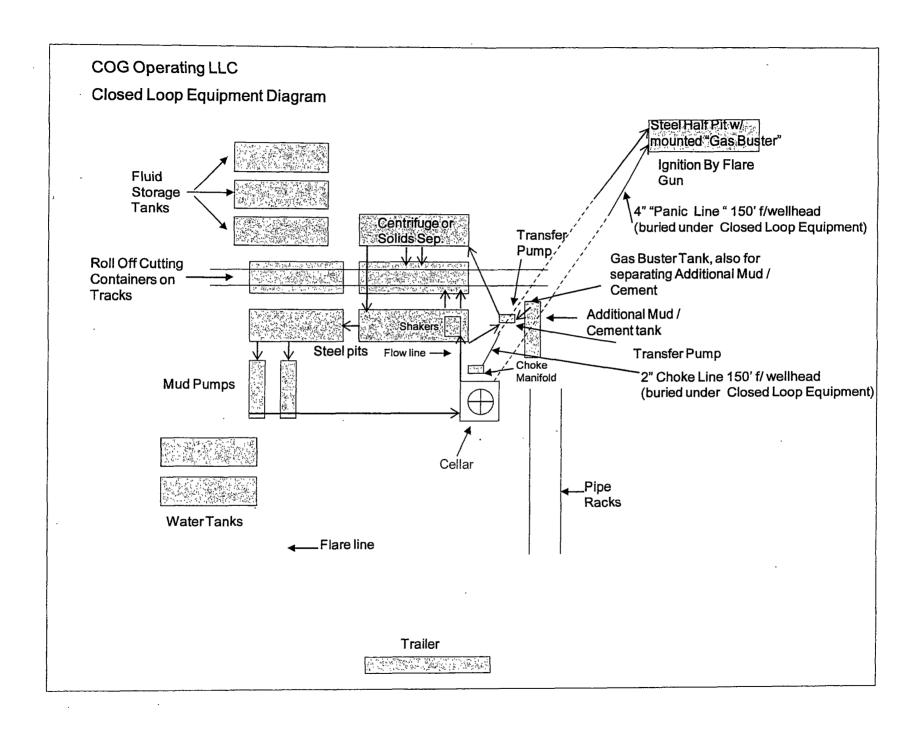
Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.

This equipment will be maintained 24 hrs./day by solids control personnel and or rig crews that stay on location.

Cuttings will be hauled to either:

CRI (permit number R9166) or GMI (permit number 711-019-001)

dependent upon which rig is available to drill this well.





COG Operating LLC

Eddy County, NM (NAN27 NME)
Pinto 36 State Com #2H
Pinto 36 State Com #2H

OH

Plan: Plan #1 8-3/4" Hole SHL = 150' FSL & 1700' FWL PP = 330' FSL & 1700' FWL BHL = 330' FNL & 1700' FWL

Standard Planning Report

20 February, 2012





SDI Planning Report



Database Company: Project: Site: Well: Wellbore:

EDM 5000 1 Single User Db COG Operating LLC Eddy County, NM (NAN27 NME) Pinto 36 State Com #2H Pinto 36 State Com #2H OH 💸

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

Site Pinto 36 State Com #2H GL @ 3490 00usft GL @3490:00usft Grid₁ Minimum Curvature

Project Eddy County, NM (NAN27 NME)

Map System: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) Geo Datum:

Plan #1: 8-3/4" Hole

New Mexico East 3001

System Datum: Mean Sea Level

Map Zone:

Pinto 36 State Com #2H Site Northing: 617,446.60 usft 32° 41' 50 686 N Site Position: Latitude: 466,889 40 usft 104° 26' 27 478 W From: Мар Easting: Longitude: Position Uncertainty: 0 00 usft Slot Radius: 13-3/16 " -0 06 **Grid Convergence:**

Well Pinto 36 State Com #2H and the second s **Well Position** +N/-S 0 00 usft Northing: 617,446 60 usft Latitude: 32° 41' 50 686 N +E/-W 0 00 usft Easting: 466,889 40 usft Longitude: 104° 26' 27.478 W Position Uncertainty 0 00 usft Wellhead Elevation: **Ground Level:** 3,490 00 usft

Wellbore OH 3000 Magnetics Model Name Sample Date Declination Dir Angle Field Strength (°) IGRF2010 02/20/12 7 94 60 46 48 735

Plan #1 8-3/4" Hole Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0 00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) s (°) 🧎 0.00 0 00 0 00 1 08

| Plan Sections | | | | | 1. 2. S. G. S. C. C. E. | 7.31447 | | | | |
|-----------------|-------------|---------|-----------------|-----------------|-------------------------|---------------|----------------------|-------------------|----------------|----------|
| | | | | | | | | _ | | 1 |
| Measured | | | Vertical, | | | Dogleg | Build | Turn | est was suite | |
| Depth (usft) | Inclination | Azimuth | Depth (usft) | +N/-S (usft) | +E/-W | Rate | STATE OF THE RESERVE | Rate /100usft) | TFO | |
| (usit) | S Waster | (-) | (usit) | (usit) | (usft) | (°/100usft) (| (-/100usit) (- | /IOUUST) | · (°) | rget |
| 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | |
| 2,272 54 | 0 00 | 0 00 | 2,272.54 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | 0 00 | |
| 3,022 54 | 90 00 | 1 08 | 2,750 00 | 477 38 | 8 99 | 12.00 | 12 00 | 0 00 | 1 08 | |
| 7,331 02 | 90 00 | 1 08 | 2,750 00 | 4,785 10 | 90 10 | 0 00 | 0 00 | 0 00 | 0 00 PBHL-Pint | o 36 #2H |



SDI Planning Report



Database: Company:
Project:
Site: Well: Wellbore: Design:

EDM:5000 1. Single User: Db.
COG, Operating LLC
Eddy, County, NM: (NAN27 NME)
Pinto 36, State Com #2H
Pinto, 36, State Com #2H
OH
Plan #1 8-3/4" Hole

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

Site Pinto 36 State Com #2H GL @ 3490 00ustt GL@ 3490 00ush Grid Minimum Curvature

| Planned Survey | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i fainteu Guivey | |
| Measured: Vertical | Vertical Pools Pour T |
| | Vertical Dogleg Build Turn |
| Depth Inclination Azimuth Depth +N/-S +E/-W | |
| (usft) (°) (sft) (usft) (usft) (usft) | (usft) (°//00usft) (°//00usft) (°//00usft) |
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| | 0 00 0 00 0 00 0 00 |
| KOP Start Build 12:00°/100' | |
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| | 0 32 |
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| | |
| | 2 03 107 96 12 00 12 00 0 00 |
| | 3 37 178 91 12 00 12 00 0 00 |
| | 3 39 180 03 12 00 12 00 0 00 0 0 0 0 0 0 0 0 0 0 0 |
| | and the second s |
| | 4 95 262 90 12 00 12 00 0 00 |
| | 6 71 356 27 12 00 12 00 0 00 |
| | 3 56 454 94 12 00 12 00 0 00 |
| | 3 99 477 47 12 00 12 00 0 00 |
| Land EOC hold 90.00° | |
| 3,100 00 90 00 1 08 2,750 00 554 83 10 | 0 45 554 93 0 00 0 00 0 00 |
| 3,200 00 90 00 1 08 2,750 00 654 81 12 | 2 33 654 93 0 00 0 00 0 00 |
| 3,300 00 90 00 1 08 2,750 00 754 80 14 | 4 21 754 93 0 00 0 00 0 00 |
| 3,400 00 90 00 1 08 2,750 00 854.78 16 | 6 09 854 93 0 00 0 00 0 00 |
| , | 7 98 954 93 0 00 0 00 0 00 |
| | 9 86 1,054 93 0 00 0 00 0 00 |
| | 174 1,154 93 0 00 0 00 0 00 |
| | 3 63 1,254 93 0 00 0 00 0 00 |
| | |
| | 551 1,354 93 0 00 0 00 0 00 |
| | 7 39 1,454 93 0 00 0 00 0 00 |
| | 9 27 1,554 93 0 00 0 00 0 00 |
| | 1 16 |
| | 3 04 1,754 93 0 00 0 00 0 00 |
| | 4 92 1,854 93 0.00 0 00 0 00 |
| | 6 80 1,954 93 0 00 0 00 0 00 |
| | 3 69 2,054 93 0 00 0 00 0 00 |
| | 0.57 2,154 93 0.00 0.00 0.00 |
| 4,800 00 90 00 1 08 2,750 00 2,254 53 42 | 2 45 2,254.93 0.00 0 00 0 00 |
| 4,900 00 90 00 1 08 2,750 00 2,354 51 44 | 4 33 2,354 93 0 00 0 00 0 00 |
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| | 3 10 , 2,554 93 0 00 0 00 0 00 |
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| 5,300 00 90 00 1 08 2,750 00 2,754 44 51 | 186 2,754.93 0 00 0 00 0 00 |
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| | 563 2,954 93 0 00 0 00 0 00 |
| | 751 3,054.93 0.00 0.00 0.00 |
| 5,700 00 90 00 1 08 2,750 00 3,154 37 59 | 9 39 3,154 93 0 00 0 00 0 00 |
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| | 34 4,054 93 0 00 0 00 0 00 |
| | 3 22 4,154 93 0 00 0 00 0 00 |
| 6,800 00 90 00 1 08 2,750 00 4,254.18 80 | 0 10 4,254 93 0 00 0 00 0 00 |



SDI Planning Report



Database: EDM:5000 1 Single User Db Company: COG Operating LLC Project: Eddy County NM (NAN27 NME)
Site: Pinto 36 State Com #2H
Well: Pinto 36 State Com #2H
Wellbore: OH
Design: Plan,#1 8-3/4" Hole

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

Site Pinto 36 State Com #2H. GL @ 3490 00ustt GL @ 3490 00ustt Grid Minimum Curyature

| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|----------|----------|--------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| THE STATE OF THE S | clination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | THE PLANT OF THE PARTY OF THE P | The State of the S | (°/100usft) |
| 6,900 00 | 90 00 | 1 08 | 2,750 00 | 4,354 16 | 81 99 | 4,354 93 | 0 00 | 0 00 | 0 00 |
| 7,000 00 | 90 00 | 1 08 | 2,750 00 | 4,454 14 | 83 87 | 4,454 93 | 0 00 | 0 00 | 0 00 |
| 7,100 00 | 90 00 | 1 08 | 2,750 00 | 4,554 12 | 85 75 | 4,554 93 | 0 00 | 0.00 | 0 00 |
| 7,200 00 | 90 00 | 1 08 | 2,750 00 | 4,654 10 | 87 63 | 4,654 93 | 0 00 | 0 00 | 0 00 |
| 7,300 00 | 90 00 | 1 08 | 2,750 00 | 4,754 09 | 89 52 | 4,754 93 | 0 00 | 0 00 | 0 00 |
| 7,331 02 | 90 00 | 1 08 | 2,750 00 | 4,785 10 | 90 10 | 4,785 95 | 0 00 | 0 00 | 0 00 |

| Target Name | Angle | en en en | ACCOMPANY AND A SECOND | +N/-S | +E/-W | Northing (usft) | Easting (usft) | Latitude | 'L'ongitude : |
|--------------------------------------------------------|-------|----------|------------------------|----------|-------|--------------------|-------------------|------------------|-------------------|
| PP=330' FSL Pinto 36 # plan hits target center - Point | 0 00 | 360 00 | 2,646 04 | 180 00 | 3 39 | 617,626 60 | 466,892 79 | 32° 41′ 52 467 N | 104° 26′ 27 441 W |
| PBHL-Pinto 36 #2H - plan hits target center - Point | 0 00 | 0 00 | 2,750 00 | 4,785 10 | 90 10 | 622,231 70 | 466,979 50 | 32° 42' 38 038 N | 104° 26' 26 480 W |

| Plan Annotations | | industrial actions are fine executions | describeration adjuster resistance | The second of the control of the con |
|------------------|-------------------|----------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | |
| Measured | Vertical Denth | Local Coording | nates | |
| (ueft) | Depth (ueff) | +N/-S | +E/-W | |
| (usit) | (usit) | (usit) | (usπ) _F | Comment |
| 2,272 54 | 2,272 54 | 0 00 | 0 00 | KOP Start Build 12 00°/100' |
| 3,022 54 | 2,750 00 | 474 13 | -56 39 | Land EOC hold 90 00° |





To convert a Magnetic Direction to a Grid Direction. Add 7

True North 0 06*
Magnetic North 7 99*
Magnetic Field
Strength 48734 5anT
Dip Angle 60 46*
Date 02/20/2012
36*
Model IGRE2010

Azımuths to Grid North

Pinto 36 State Com #2H Eddy County, NM (NAN27 NME) Northing: (Y) 617446.60 Easting. (X) 466889.40 Plan #1 8-3/4" Hole

1000

WELL DETAILS Pinto 36 State Com #2H

#NI-S +E/-W Northing Easting Latitude Longfude Slot
0 0 0 0 0 617448 60 466868 40 32* 41* 50 686 N 104* 26* 27 476 VV

SECTION DETAILS

DESIGN TARGET DETAILS

Name | TVD | +N-S | *E-/W | Northing | Easting | Latitude | Longstude | Shapn | Po-330 FSL Plmio 36 82H 2646 04 | 180 00 | 3.39 | 617636 60 | 466892 7832**4**152 467 N0**2 62 74 41 W | Point | Point | Form 0.38 82H | 758 00 | 478 510 | 90 10 | 622231 70 | 466879 5032**4*738 038 N04**26*26 480 W | Point | Point | Northing | Point | Point | Northing | Latitude | Longstude | Shapn | Northing | Latitude | Longstude | Shapn | Northing | Latitude | Longstude | Shapn | Northing | Point | Northing | Latitude | Longstude | Shapn | Northing | Latitude | Longstude | Longstude | Shapn | Northing | Latitude | Longstude | Shapn | Northing | Latitude | Longstude | Shapn | Northing | Latitude | Longstude | Lo

400 -200 0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200

Vertical Section at 1.08° (200 usff/in)

PROJECT DETAILS Eday County, NM (NAN27 NME) Geodetic System US State Plane 1927 (Exact solution) Datum NAD 1927 (NADCON CONUS) Ellipsoid Clarke 1896 Zone New Mexico East 3001

System Datum Mean Sea Level

Map System US State Plane 1927 (Exact solution Datum NAO 1927 (NADCON CONUS) Ellipsoid Clarke 1866

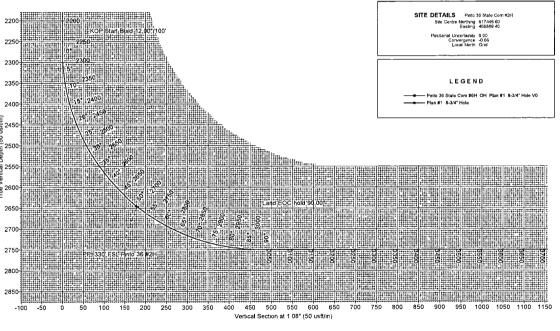
Local Origin Site Pinto 36 State Com #2H Grid North

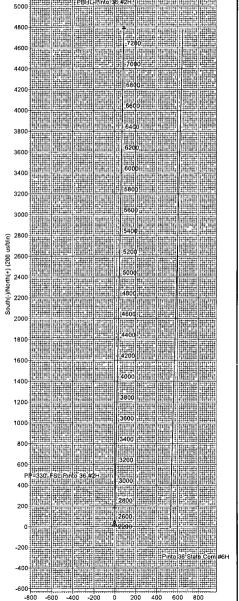
Latitude 32° 41° 50 686 N Longitude 104° 26 27 478 N

Grid East 465889 40 Grid North 617446 60

Geomagnetic Model IGRF2010 Sample Date 20-Feb-12 Magnetic Declination 7 94* Dip Angle from Horizontal 60 46*

To convert a Magnetic Direction to a Grid Direction, Add 7.99°
To convert a Magnetic Direction to a True Direction. Add 7.94° East
To convert a True Direction to a Grid Direction. Add 0.06°





West(-)/East(+) (200 usft/in)