Surface Use Plan HOBBS OCD

Energen Resources Corporation Cox Federal 35-1H Sec 35, T23S, R35E 200 fsl, 400 fel Lea County, NM NOV 2 6 2013

RECEIVED

This plan is submitted as the partial requirements of an Application for Permit to Drill as outlined in Onshore Order 1 covering the above referenced well.

1. Existing Roads:

- A. A map depicting county roads and topography will be used showing access to the proposed location. All access roads will be labeled for points of reference. Any plans for improvement and/or maintenance of existing roads will be provided upon direction of the regulatory agency as identified during on-site meeting discussion. Roads will be maintained, if necessary, according to the 'BLM Gold Book Standards'.
- B. Directions: Travel west on Highway 128 from the intersection of Highways 18 and 128 in Jal 26 miles. Turn right (northwest) on CR XX for 4.6 miles. Turn left (west) on existing lease road for 0.8 miles. Turn left (south) on new construction road for 1 mile. Turn left (east) on new road for 1373 feet to the Cox Federal 35-1H wellpad. (see attached map by Watson Professional Group, Inc.)

2. Proposed Access Road:

- A. The new access road for the subject well will begin on the south side of an existing old drill site ("dry hole") and travel south for 600', then turn left or east for 533' to the planned wellpad. The road leading to the old drill site is an existing two track road that will be upgraded to 'BLM Gold Book Standards".
- B. The access road will be upgraded and constructed to be 14' wide with adequate contour to permit proper draining.
- C. The surface will be rolled with 6" of caliche, and the sides ditched for proper drainage.

3. Location of Existing Wells:

The nearest well will be a new planned well, Cox Federal 35-2H. A map indicating existing wells will be shown if within a 1 mile radius of the proposed location.

4. Location of Proposed Production Facilities:

A diagram depicting the planned location of production facilities will be provided for the subject well, Cox Federal 35-1H. Production facilities will be manufactured, transported and set off lease on Cox Federal 35-2H wellsite, see attached diagram of 'Anticipated Wellsite Layout'. The anticpated flowline will travel the route of the planned access road and will be SDR-7 for the delivery of hydrocarbon liquids to a central delivery point which will remain on surface. Expected length of this line is approximately 4,500'. Produced water will be stored and hauled or trucked to a disposal facility. Gas will be delivered

via a high pressure 4" pipeline and will be buried below surface. The anticipated gas pipeline company is DPC. See attached Pipeline Route Plat.

5. Water Supply for Drilling/Completion:

Water sources will be as follows:

- A. Brine Water Wassurhund Water Station in Buckeye or Eagle Water Station in Hobbs.
- B. Fresh Water Arkansas Junction (2 mi east of 529 on 62/180) or Marathon Water Station (Marathon Road west of junction of 529 and 62/180).
- C. Approximately 35 500 bbl mobile Frac Tanks will be used for completion. A 'Frac Pond' will not be used.

6. Construction Materials:

All materials used will be from a native borrow source or as otherwise permitted by the regulatory agency and coordinated by Energen and Construction Contractor representatives.

7. Methods of Handling Waste:

- A. A closed loop system is anticipated to be used for the storage of drill fluids and drill cuttings.
- B. Fluids and cuttings will be hauled off location once TD is reached and the drilling rig is released.
- C. Flowback tanks will be used during the completion portion of the well with all fluids being hauled off location.
- D. Current laws pertaining to the storage and disposal of human waste will be observed.
- E. All other waste such as paper, plastic, and "junk" will be stored in a container on the wellsite and hauled to the nearest approved landfill area.
- 8. <u>Ancillary Facilities</u>: No other campsite, airstrip, or other facilities will be constructed for the drilling operations of the Cox Federal 35-1H.

9. Wellsite Layout:

- A. The planned wellpad size is 375' X 375'. A closed-loop system will be used.
- B. A 600' X 600' area has been staked and flagged.
- C. An accompanying NMOCD form C-102 along with wellpad layout, cut & fill diagrams, and surveyors maps have been included within the APD pkg for reference.

10. Reclamation of Surface:

A. Material will be removed by conventional methods and the topsoil stockpiled on the upper NW corner of the wellpad. Unused portions of the wellpad during production operations will be adequately reclaimed and monitored as outlined in the Interim Reclamation Plan and COA's. Remaining topsoil and caliche will be placed and/or stored within the confines of the interim reclamation area for final reclamation of surface. A portion of the topsoil and caliche will be used for material in the interim reclamation process and will be placed to reclaim to the original or near original contour.

Proposed Interim Reclamation:

Cox Federal 35-1H

During production operations, interim reclamation will be done according to the plan approved by the Carlsbad BLM Field Office. Energen Resources will submit Sundry Notices and Reports on Wells (NOI) on Form 3160-5 prior to conducting these operations.

A plat depicting the planned area of reclamation during production operations will be provided showing any dimensions in relation to the reclaimed area(s) and production facilities.

If any disturbance is required for wellwork or recompletion operations, appropriate protocol will be followed as outlined in the Interim Reclamation Plan and Carlsbad BLM Field Office.

During reclamation, removed caliche will be used for the repair and maintenance of roads, fire walls, etc. to aide in the re-vegetating efforts of reclamation. Topsoil will be placed in reclamation areas to facilitate seed germination. The topsoil will be place to or as near as possible the natural landscape/topography.

A photo record will be made prior to reclamation and after reclamation has begun. An updated photo record will be made after each growing season for 3 years after the reclamation start date at the end of each growing season. After the first three years, a photo record will be made each 5th year after reclamation began up to the abandonment of the well. Points of transect will be determined during the interim reclamation onsite in order to identify the points of photography for the record.

Planned Seed Mix is 2 and 3, unless directed otherwise by the Carlsbad BLM Field Office. Seed Mix 2 will be used in sandy soils. Seed Mix 3 will be used for shallow soils.

Seed will be evenly and uniformly distributed over disturbed area. A depth regulator and drill will be used to ensure proper depth of seed placement. Where drilling is not possible and broadcast method will be used, the soil raked or chained to cover seed. When broadcasting, the lb/acre will be increased by 100%. Seeding will continue until a satisfactory cover is established.

Seed Mix 2 (sandy sites):

Sand Dropseed (Sporobolus cryptandrus)	1.0 lb/acre
Sand Love Grass (Eragrostis trichodes)	1.0 lb/acre
Plains Bristlegrass (Setaria macrostachya)	2.0 lb/acre

Seed Mix 3 (shallow sites):

Plains Bristlegrass (Setaria macrostachya)	1.0 lb/acre
Green Spangletop (Leptochloa dubia)	2.0 lb/acre
Side Oats Grama (Bouteloua curtipendula)	5.0 lb/acre

WELL FLAG LAT: 32'16'26.4288" LON: 103'23'19.6480" ENERGEN RESOURCES CORPORATION

COX-FEDERAL 35-1H

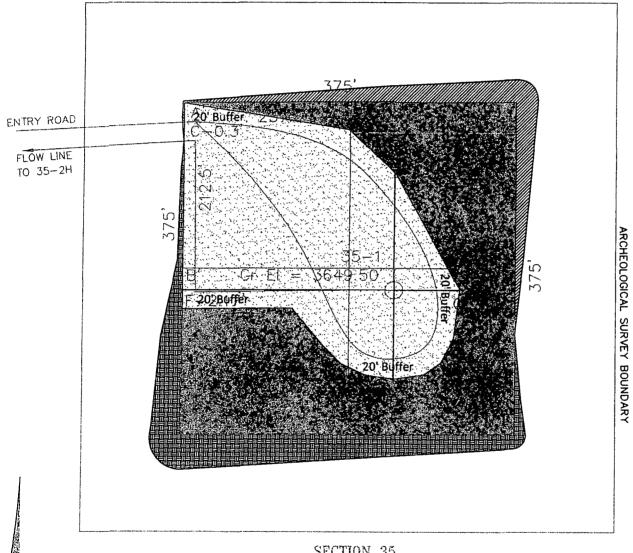
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SECTION 35

T-23-S, R-32-E

NOTES:

LEA COUNTY, NEW MEXICO FINISHED PAD ELEVATION; 3649.5' GROUND ELEVATION 3649.5 NAVD 88



SECTION 35 T-23-S

E-32-E

LEGEND

CONSTRUCTION ZONE 500' X 590' AREA PROPOSED LEASE ROAD

TOTAL LENGTH OF NEW ROAD = 2832.75

Basis of Bearing is SPC NAD 83 NEW MEXICO EAST

Watson Professional Group Inc

5001

WINDSHIP THE PROPERTY.

1000

FRE/T/PROJECTS/NEW MEXICO/LEA/TENS RISE.ONT WORLS-1155-50

P.O. DRAWER 11186 MIDLAND, TEXAS 79702 (432) 520-9200 FAX (432)520-9212 WESTLUM FROM TEXAS

CONSCITING ENGINEERS, LAND SURVEYORS & PLANNERS

DIRT WORK CALCULATIONS

ENERGEN RESOURCES CORPORATION

COX FEDERAL 35-1H

Location Pad Calculations T-23-S, R-32-E LEA COUNTY, NEW MEXICO.

Multi-Point Surface Use Plan of Operations

<u>Existing Roads</u>: A map depicting county roads and topography will be used showing access to the proposed location. All access roads will be labeled for points of reference. Any plans for improvement and/or maintenance of existing roads will be provided upon direction of the regulatory agency as identified during on-site meeting discussion. Roads will be maintained, if necessary, according to the 'BLM Gold Book Standards'.

<u>New Roads, Constructed or Re-constructed</u>: All permanent and temporary access roads to be used will be indicated on an appropriately identified map. Proposed access to the wellsite will be shown with reference to existing roads and other points of interest if necessary as indicated on the land surveyor's map.

Location of Existing Wells: A map indicating existing wells will be shown if within a ½ mile radius of the proposed location.

<u>Location of Proposed Production Facilities</u>: A diagram depicting the planned location of production facilities will be provided for the subject well, Cox Federal 35-1. A survey of planned pipeline and/or flowline facilities will be provided. Production facilities will be manufactured and transported to the planned wellsite.

Water Supply for Drilling/Completion: Water sources will be as follows:

Brine Water – Wassurhund Water Station in Buckeye or Eagle Water Station in Hobbs. Fresh Water – Arkansas Junction (2 mi east of 529 on 62/180) or Marathon Water Station (Marathon Road west of junction of 529 and 62/180).

<u>Construction Materials</u>: All materials used will be from a native borrow source or as otherwise permitted by the regulatory agency.

Methods of Handling Waste: A closed loop system is anticipated to be used for the storage of drill fluids and drill cuttings. Fluids and cuttings will be hauled off location once TD is reached and the drilling rig is released. Flowback tanks will be used during the completion portion of the well with all fluids being hauled off location. Current laws pertaining to the storage and disposal of human waste will be observed. All other waste such as paper, plastic, and "junk" will be stored in a container on the wellsite and hauled to the nearest approved landfill area.

<u>Ancillary Facilities</u>: Any other facilities such as camps will be identified if located off the proposed wellsite.

<u>Wellsite Layout</u>: A scale depicting the planned layout will be provided showing the planned wellsite, with road access/entry points. A cut and fill diagram will be included show the relationship to topography to construct a level wellpad.

<u>Reclamation of Surface</u>: Unused portions of the wellpad during production operations will be adequately reclaimed as directed by the regulatory agency including, but not limited to; topsoil, reseeding, and storm water drainage.

<u>Surface Ownership</u>: The surface of the proposed wellpad location is located on Bureau of Land Management (BLM) located in Lea County, NM Carlsbad Field Office.



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this day of October, 2013	
Name TOM S. CARRENS	
Position Title Drilling Supi	
Address 3300 North A Street Bldg. 4, Suite 100 Midland, TX 79705	
Telephone (432) 687-1155	
Field Representative (if not above signatory)	
Address (if different from above)	
Telephone (if different from above)	
E-mail (optional)	

SKETCH PLAT

ENERGEN RESOURCES CORPORATION

COX-FEDERAL 35-1H ,

200 FSL & 400 FEL

SECTION 35

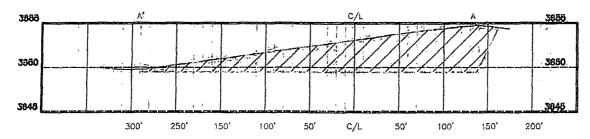
T-23-S, R-32-E

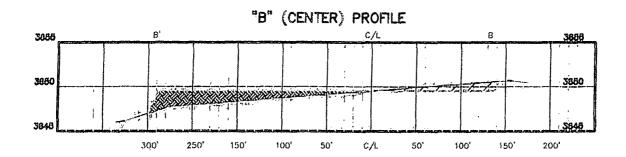
LEA COUNTY, NEW MEXICO

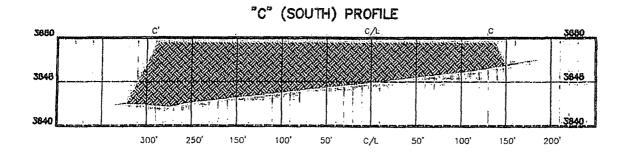
FINISHED PAD ELEVATION; 3649.5'

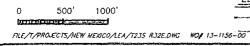
GROUND ELEVATION 3649.5 NAVD 88

"A" (NORTH) PROFILE









EXISTING GRADE

Bosis of Beoring is SPC NAD 83 NEW MEXICO EAST



LEGEND

LOCATION PAD PROFILES

ENERGEN RESOURCES CORPORATION

COX FEDERAL 35-1H

Location Pad Calculations T-23-S, R-32-E LEA COUNTY, NEW MEXICO. ENERGEN RESOURCES CORPORATION

COX-FEDERAL 35-1H

200 FSL & 400 FEL

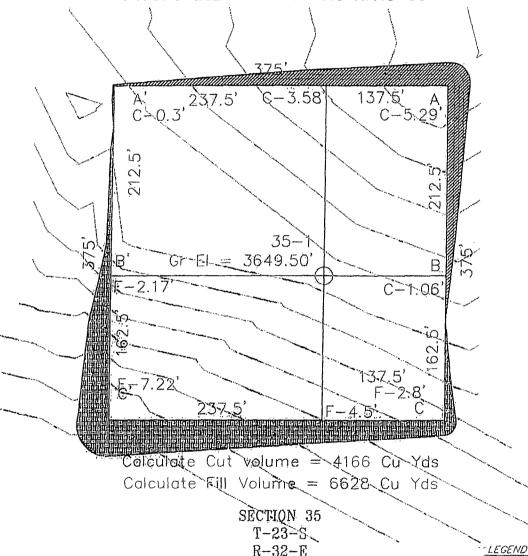
SECTION 35

T-23-S, R-32-E

LEA COUNTY, NEW MEXICO

FINISHED PAD ELEVATION; 3649.5'

GROUND ELEVATION 3649.5 NAVD 88



CONSTRUCTION ZONE 600' X 600' AREA PROPOSED LEASE ROAD

TOTAL LENGTH OF NEW ROAD = 2832.75

Basis of Bearing is SPC NAD 83 NEW MEXICO EAST

DIRT WORK CALCULATIONS

ENERGEN RESOURCES CORPORATION

COX FEDERAL 35-1H

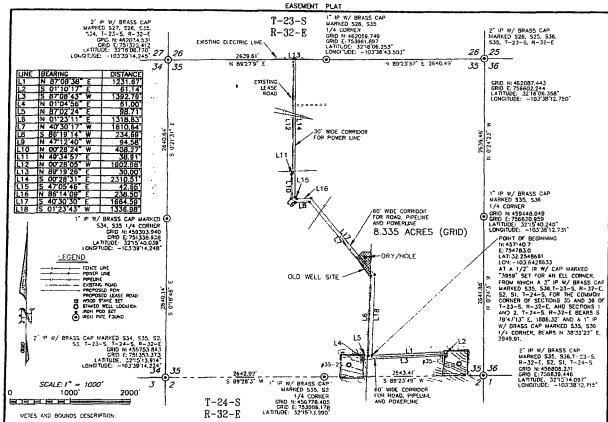
Location Pad Calculations T-23-S, R-32-E LEA COUNTY, NEW MEXICO.

500′ 1000′

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CONSULTING ENGINEERS, LAND SURVETORS & FLANNERS



BERKS A 8.335 ACRE, MORE OR LESS, TRACT OF LAND LYING IN AND BEING PART OF SECTIONS 35 AND 26. T-23-S, R-32-E, LEA COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BECHNING AT A 1/2 BIGH 1804 NO SET WITH A CAP MARKED 13959" (1457140.7 E:754783.0) FOR AN ELL CORNER, FROM WHICH A FOUND 2 INCH 190N PIPE WITH A BRASS CAP MARKED 1335, 535, 1-23-5, P. 27-25, P. 27

THENCE, HORTH 2708'38' EAST, A DISTANCE OF 1231 67 FEET TO WOOD STAME SET (H-457202.1 E-756013.2), FROM WHICH A STAKE SET FOR THE ENERGEN \$35-1 WELL LOCATION, BEARS SOUTH 4572'16' EAST, A DISTANCE OF 301 02 FEET, FOR A SOUTHEAST CORNER MERCOF;

IMENCE SOUTH DITIOTIZE EAST, A DISTANCE OF 61.14 FEET TO A WOOD STAKE SET (NAS7140.9 E:756014.4), FROM WHICH A STAKE SET FOR THE SAID ENERGEN \$35-1 WELL LOCATION, BEARS SOUTH 52709'40" EAST, A DISTANCE OF 263.31 FEET, FOR A SOUTHEAST CORNER HEREOF;

THENCE SOUTH 8708'43" WEST. A DISTANCE OF 1392.79 FEET TO A WOOD STAKE SET (N:457071.6 E 754623.3), FROM WHICH A STAKE SET FOR THE ENERGEN \$35-2 WELL LOCATION. BEARS SOUTH 68726'45" WEST, A DISTANCE OF 242.02 FEET, FOR A SOUTHWEST CORNER HEREOF.

THENCE NORTH DITO41561 EAST, A DISTANCE OF 61.00 FEET TO A WOOD STANC SET (N:457132.6 E:754824.5), FROM WHICH A STAKE SET FOR THE SAID ENERGEN #35-2 WELL LOCATION, BEARS SCUTH 56119187 WEST, A DISTANCE OF 270.42 FEET, FOR A SOUTHWEST CORNER HEREOF:

THERCE HOPTH 8/70274* FAST, A DISTANCE OF 98.71 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED "3959" (N:457137.7 E.754723.1), FROM WHICH A 1 INCH IRON PIPE WITH BRASS CAP MARKED "535, 52 1/4 "OPPMER". BEARS SOUTH 63'47'16" WEST, A DISTANCE OF BOR.91 FEET, FOR AN ELL CORNER HEREOF:

THANCE HOWER 01737817 EAST. A DISTANCE OF 1318 83 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED 1955" (NIASBAS6 1 E2754755.0), FROM WHICH A 1 INCH IRON PIPE WITH BRASS CAP MARKED 1834, SSE 1/4 CORNER, BEARS NORTH 74/38/53" WEST. A DISTANCE OF 3542.44 FEET, FOR A CORNER HEREOF:

THERICE HOMEN 40'30'17' WEST, A INSTANCE OF 1810.84 FEET TO A 1/2 WICH INCH ROD SET WITH A CAP MARKED '3950' (N:45968) 7 E:753708.9); FROM WHICH THE SAID T INCH IRON PIPE WITH EPAGS CAP MARKED 'S34, '835 1/4 CORNER', BEAPS SOUTH 53'05'59' WEST, A DISTANCE OF 2387.20 FEET, FOR A CORNER HEREOF:

THERCE SOUTH BETGETAT WEST, A DISTANCE OF 234.69 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED "39.99" (N-69065.7 E-753474.6), FROM WHICH THE SAID 1 INCH IRON PIPE WITH EPASS CAP MARKED "S34 S35 1/4 CORNER", BEARS SOUTH BE744"55" WIST, A DISTANCE OF 2152.92 FEET, FOR A CORNER NERGOF:

THERCE LIGHTH 47 12'40" WEST, A DISTANCE OF 94.58 FEET TO A 1/2 WICH IRON 900 SET WITH A CAP MARKED "39/20" (N:458720 9 5-753405.2), FROM WHICH THE SAID 1 WICH IRON PIPE WITH BRASS CAP MARKED "334, S35 1/4 CORNER", BEARS SOUTH BO'45'51" WEST, A DISTANCE OF 2093.43 FEET, FOR A CORNER HEREOF:

THENCE, DOTALT WEST, A DISTANCE OF 408 27 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED 1950" (N-480:39 2 E-7534019). FROW WHICH THE SAID 1 INCH IRON PIPE WITH SECOND SECOND

THENCE MORTH 4974/57 EAST, A DISTANCE OF 38.91 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED "3959" (N-480163 4 E.753431.5), FROM WHICH THE SAID I INCH IRON PIPE WITH BRASS CAP MARKED "535, S36 1/4 CORNER", BEARS SOUTH 77:21/30" EAST, A DISTANCE OF 3268.72 FEET, FOR A SOUTHEAST CORNER HEREOF:

THENCE HORTH OUT28'05" WEST, AT A DISTANCE OF 1891,18 FEET, PASSING THE COMMON LINE OF THE SAID SECTIONS 35 AND 26, A TOTAL DISTANCE OF 1902/88 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP LIARRED "3855" (IN-482066.3 E:753-11-59), FROM WHICH A 2 INCH IRON PDE WITH A BRASS CAP MARKED "527, S26, S35, S33, T-23-S, R-32-E", FOR THE COVINION CORNER OF SECTION 35.4, 27.4 AND E. T.22-S. F. 32-E. SUMS SOUTH 8907-FG WEST, A DISTANCE OF SOSTAINCE OF SOSTA

THENCE MORTH 89:19'25' FAST, A DISTANCE OF 30.00 FEET TO A 1/2 BIGH IRON ROD SET WITH A CAP MARKED "3958" (N:462066 7 E:753445.9) FROM WHICH A 1 INCH IRON PIPE WITH BRASS CAP MARKED "526, 535 1/4 CORMER", BEARS SOUTH 89'13'45" EAST, A DISTANCE OF 516.01 FEET, FOR A CORMER HERCOF.

THERCE SOUTH ODDIESTS EAST, A DISTANCE OF 11.87 FEET, PASSING THE COMMON LINE OF THE SAID SECTIONS 25 AND 35, A TOTAL DISTANCE OF 23:C.51 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED "3555" (M:490756.3) E.753465.1). FROM WHICH THE SAID 1 INCH IRON PIPE WITH GRASS CAP MARKED "535, S36 1/4 CORRER", BEARS SOUTH 84'25'18" EAST, A DISTANCE OF 37:03.07 FEET FOR A COMBERT MERCE".

THENCE SOUTH 4705/45" EAST A DISTANCE OF 42.65 FEET TO A 1/2 INCH IRON PIPE WITH A CAP IMARKED "3959" (H:459727.2 E:753496.3), FROM WHICH THE SAID 1 INCH IRON PIPE WITH PRASS CAP MARKED "335, S36 1/4 CORNER", BEARS SOUTH 84'55'20" EAST, A DISTANCE OF 3'37.21 FEET, FOR A CORNER HEREOF;

THEIMIE HORTH BETH OF LAST, A DISTANCE OF 238.50 FEET TO A 1/2 INCH IRON ROO SET WITH A CAP MARKED "3859" (N:459742.9 E:753734.3), FROM WHICH THE SAID I INCH IRON PIPE WITH BHASS CAP MARKED "S35, \$35, 1/4 CORNER", BEARS SOUTH 8410"06" EAST, A DISTANCE OF 2801.65 FEET, FOR A CORNER "FREOF;

THEMCE SOUTH 4000100" EAST, A DISTANCE OF 1664-59 FEET TO A 1/2 INCH IRON ROD SET WITH A CAP MARKED "3859" (N.458477.) 1,754815.6), FROM WHICH THE SAID 1 INCH IRON PIPE WITH BRACS CAP MARKED "535, F36 1/4 CORNER", BEARS NORTH 6114/58" EAST, A DISTANCE OF 2049.84 FEET, FOR A CORNER HERECK.

S 8.335 ACRES, MOR THENSE SPATH OF 23'43" WEST, A DISTANCE OF 1336.98 FEET TO THE PLACE OF BEGINNING AND CONTAINING 8.335 MORE OR LESS

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PROFESSIONAL No. 3059 W. WELLO

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ENERGEN RESOURCES

COX FEDERAL LEASE

A PROPOSED ROW CORIDOR IN SECTIONS 35 & 26 T-23-5, R-32-E LEA COUNTY, NEW MEXICO.



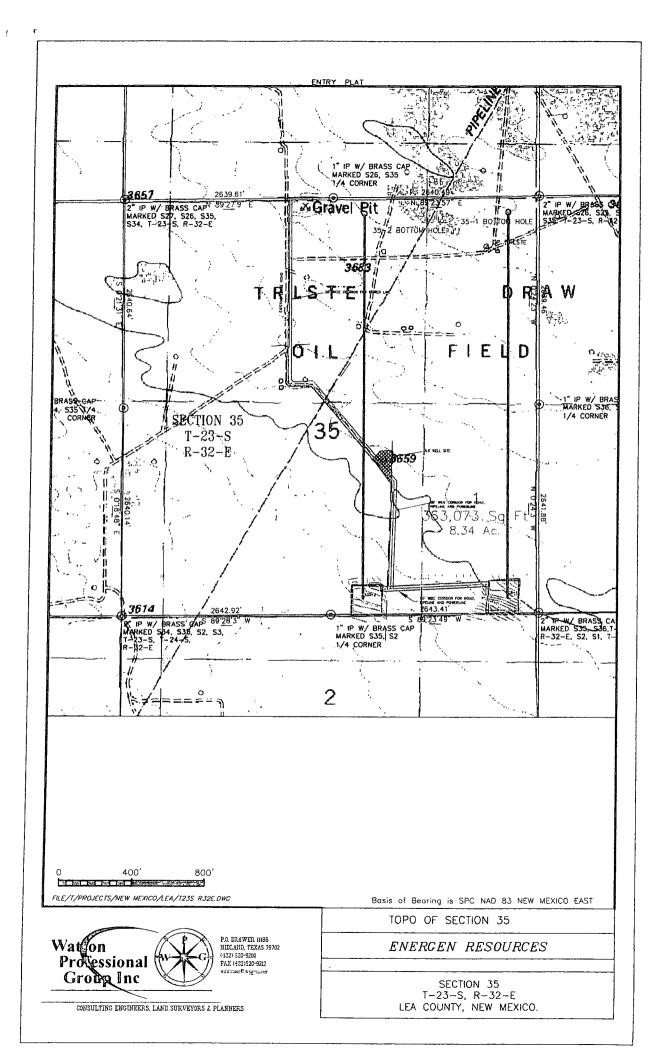
P.C. DRAWEE 1186 ENDLAND, TEXAS 79742 (122) 526–9262 FAX (432) 520-9212 rivace i versa es

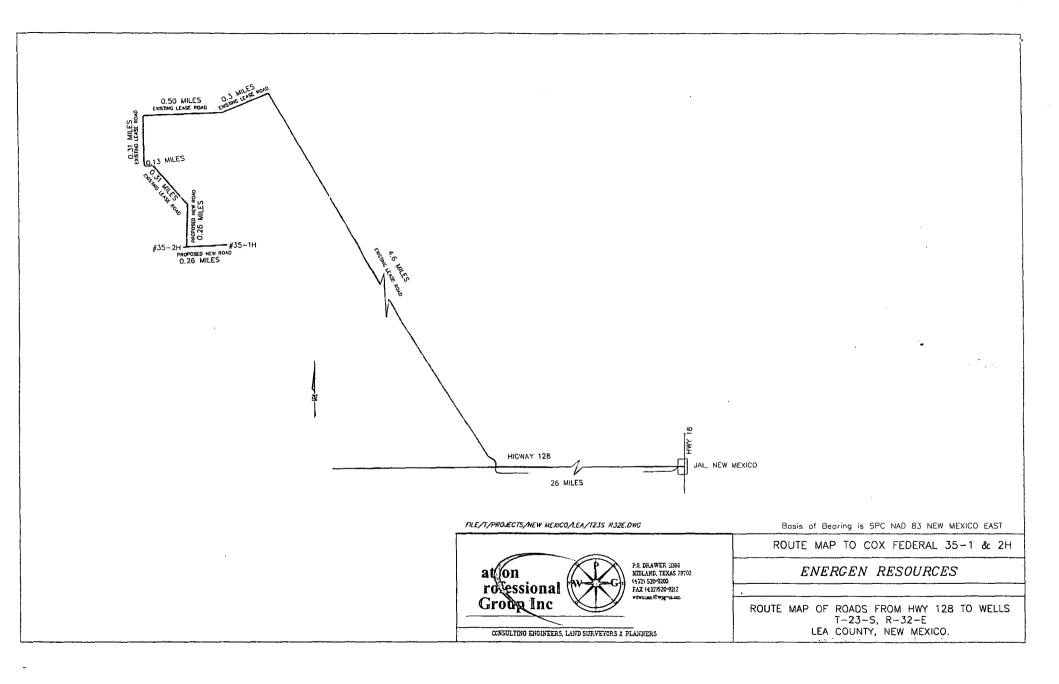
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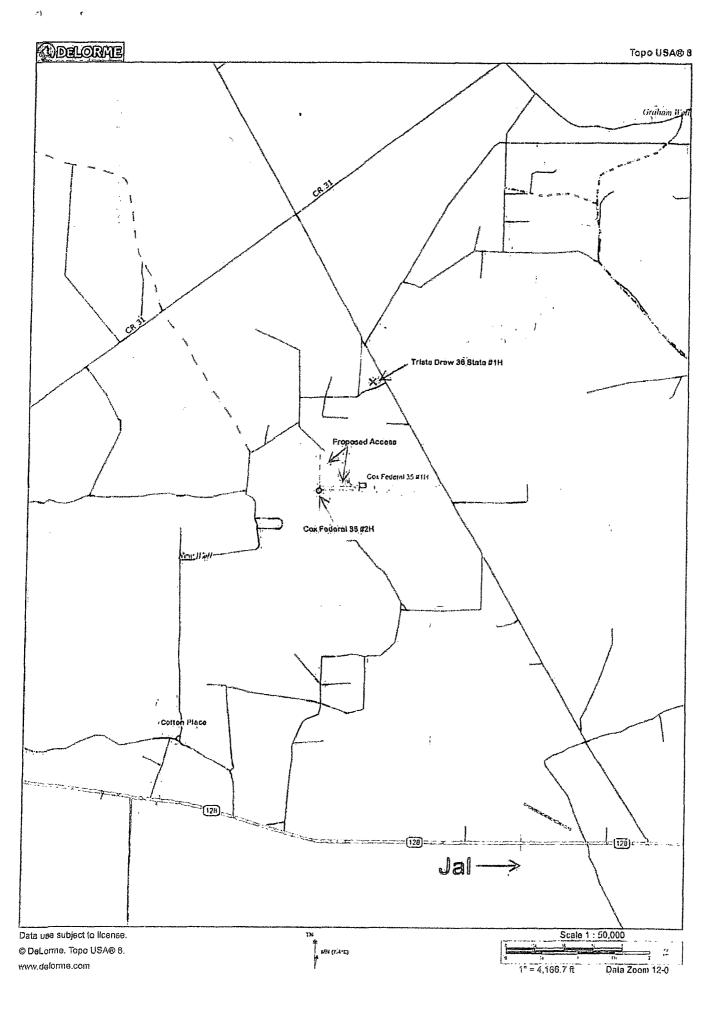
MAMIO W.D. Watson, Jr. NEW MEXICO P.L.S 3959

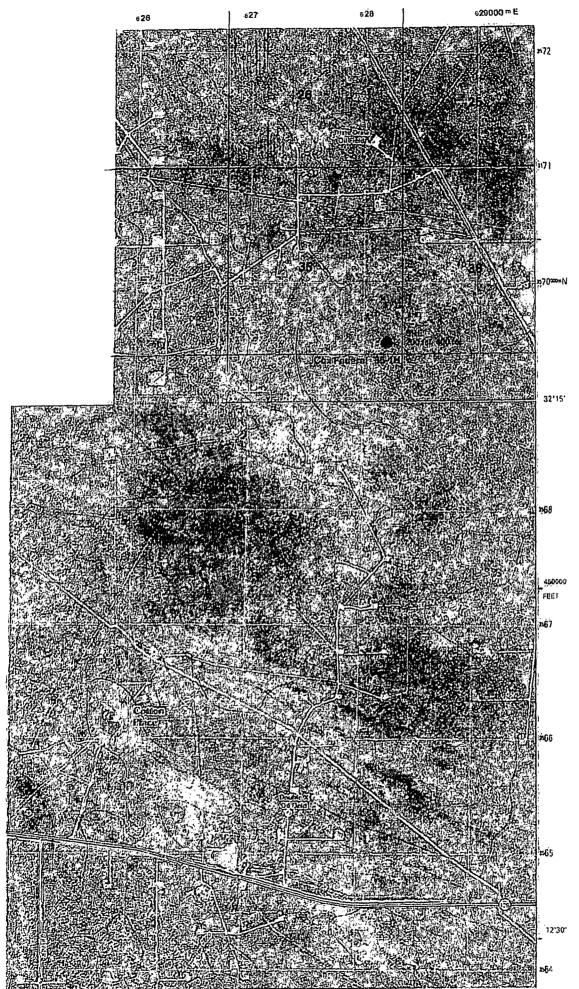
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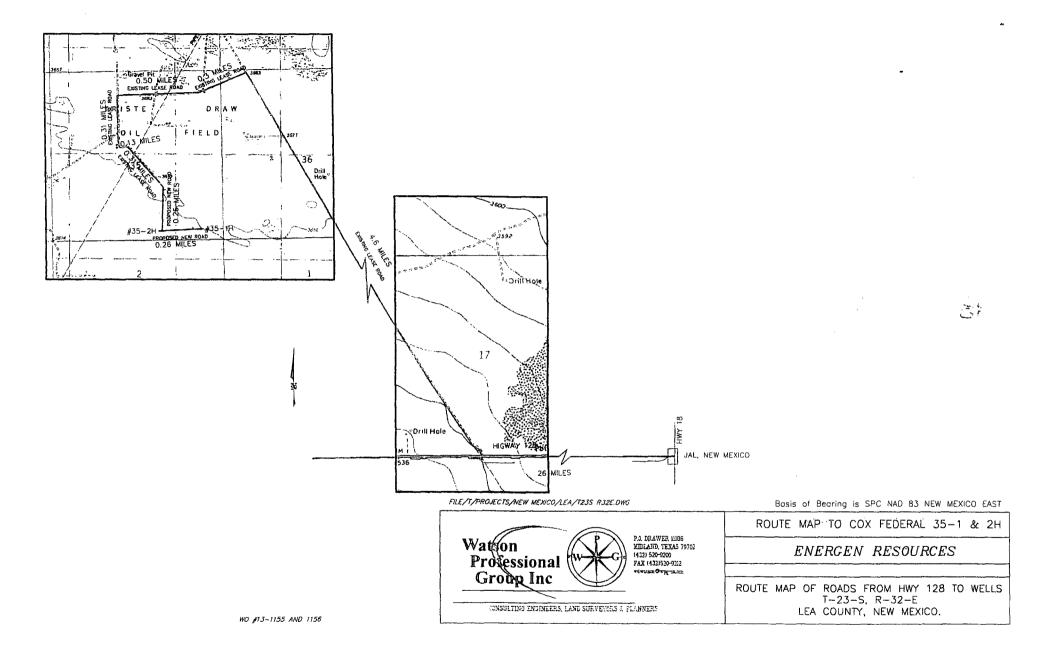








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