

30-015-39489

# Surface Use & Operating Plan

## Redbud Federal #2

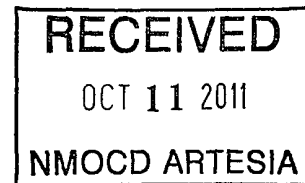
- Surface Tenant: Bogle Farms, Lewis Derrick, P O Box 441, Artesia, NM 88211.
- New Road: approx. 332'
- Flow Line: approx. 100'
- Facilities: Redbud Federal #2 Tank Battery

### Well Site Information

V Door: East

Topsoil: West

Interim Reclamation: West/South



### Notes

-Redbud Federal #2 Tank Battery to be built north of location

**Onsite:** 7/14/2011

John Fast (BLM), Chris Moon (COG), Caden Jameson (COG), Gary Box (J.W.S)

## **SURFACE USE AND OPERATING PLAN**

### **1. Existing & Proposed Access Roads**

- A. The well site survey and elevation plat for the proposed well is attached with this application. It was staked by John West Engineering, Hobbs, NM.
- B. All roads to the location are shown in the Vicinity Map. The existing lease roads are illustrated and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling the well will be done where necessary. The road route to the well site is depicted in Exhibit #2. The road highlighted in Exhibit #2 will be used to access the well.
- C. Directions to location: FROM THE INTERSECTION OF US HWY #82 AND CO. RD. #202 (SOUTHERN UNION), GO NORTH ON CO. RD. #202 APPROX. 130 FEET. TURN RIGHT AND GO SOUTHEAST APPROX. 0.5 MILES. TO A PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY STAKES NORTHEAST APPROX. 386 FEET TO THIS LOCATION. See Vicinity Map, Exhibit #3.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in section 2A of this Surface Use and Operating Plan.

### **2. Proposed Access Road:**

The Elevation Plat shows that 332' of new access road will be required for this location. If any road is required it will be constructed as follows:

- A. The maximum width of the running surface will be 14'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattle guard, gates, low water crossings or fence cuts are necessary.

- E. Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be hauled from the nearest BLM approved caliche pit.

**3. Location of Existing Well:**

The 1-mile Map shows all existing wells within a one-mile radius of this well.

As shown on this plat there are numerous wells producing from the San Andres and Yeso formations.

**4. Location of Existing and/or Proposed Facilities:**

- A. COG Operating LLC does operate a production facility on this lease.
- B. If the well is productive, contemplated facilities will be as follows:
- 1) Production will be sent to the Redbud Federal #2 tank battery located in section 25 at the Redbud Federal #2 well in T17S R27E at 300' FNL & 2340' FWL. The facility location is shown in Exhibit #1.
  - 2) The tank battery and facilities including all flow lines and piping will be installed according to API specifications.
  - 3) Any additional caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche will be hauled from a BLM approved caliche pit. Any additional construction materials will be purchased from contractors.
  - 4) Proposed flow lines, will follow an archaeologically approved route to the Redbud Federal #2 tank battery located in section 25 at the Redbud Federal #2 well in T17S R27E at 300' FNL & 2340' FWL. The flowline will be SDR 7 3" poly line laid on the surface and will be approximately 100 feet in length.
  - 5) It will be necessary to run electric power if this well is productive. Power will be provided by CVE and they will submit a separate plan and ROW for service to the well location.
  - 6) If the well is productive, rehabilitation plans will include the following:
    - The original topsoil from the well site will be returned to the location, and the site will be re-contoured as close as possible to the original site.

**5. Location and Type of Water Supply:**

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Exhibit #1. If a commercial fresh water source is nearby, fast line may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

**6. Source of Construction Materials and Location "Turn-Over" Procedure:**

Obtaining caliche: The primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well sight. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu. Yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.**
- B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.**
- C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.**
- D. When caliche is found, material will be stock piled within the pad site to build the location and road.**
- E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.**
- F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.**

In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit.

**7. Methods of Handling Water Disposal:**

- A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- B. Drilling fluids will be contained in steel mud pits.
- C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill. No toxic waste or hazardous chemicals will be produced by this operation.
- E. Human waste and grey water will need to be properly contained and disposed of. Proper disposal and elimination of waste and grey water may include but are not limited to portable septic systems and/or portable waste gathering systems (i.e. portable toilets).
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

**8. Ancillary Facilities:**

No airstrip, campsite or other facilities will be built as a result of the operation on this well.

**9. Well Site Layout:**

- A. The drill pad layout, with elevations staked by John West Engineering, is shown in the Elevation Plat. Dimensions of the pad and pits are shown on the Rig Layout. V door direction is East. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.
- B. The Rig Layout Closed-Loop exhibit shows the proposed orientation of closed loop system and access road. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.

**10. Plans for Restoration of the Surface:**

- A. Interim Reclamation will take place after the well has been completed. The pad will be downsized by reclaiming the areas not needed for production operations. The portions of the pad that are not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused to either build another pad site or for road repairs within the lease. The stockpiled topsoil will then be spread out reclaimed area and reseeded with a BLM approved seed mixture. In the event that the well must be worked over or maintained, it may be necessary to drive, park, and/or operate machinery on reclaimed land. This area will be repaired or reclaimed after work is complete.
- B. Final Reclamation: Upon plugging and abandoning the well all caliche for well pad and lease road will be removed and surface will be recountoured to reflect its surroundings as much as possible. Caliche will be recycled for road repair or reused for another well pad within the lease. If any topsoil remains, it will be spread out and the area will be re-seeded with a BLM approved mixture and re-vegetated as per BLM orders.

**11. Surface Ownership:**

- A. The surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is multiple uses with the primary uses of the region for grazing of livestock and the production of oil and gas.
- B. The surface tenant is Bogle Farms, Lewis Derrick, P.O. Box 441, Artesia, NM 88211.
- C. The proposed road routes and surface location will be restored as directed by the BLM

**12. Other Information:**

- A. The area around the well site is grassland and the topsoil is sandy. The vegetation is moderately sparse with native prairie grasses, some mesquite and shinnery oak. No wildlife was observed but it is likely that mule deer, rabbits, coyotes and rodents traverse the area.
- B. There is no permanent or live water in the immediate area.
- C. There are no dwellings within 2 miles of this location.
- D. If needed, a Cultural Resources Examination is being prepared by Southern New Mexico Archaeological Services, Inc. P.O. Box 1, Bent New Mexico, 88314, phone # 505-671-4797 and the results will be forwarded to your office in the near future. Otherwise, **COG will be participating in the Permian Basin MOA Program.**

**13. Bond Coverage:**

Bond Coverage is Nationwide Bond # 000215 & NMB000740

**14. Lessee's and Operator's Representative:**

The COG Operating LLC representative responsible for assuring compliance with the surface use plan is as follows:

John Coffman,	Erick Nelson.
Drilling Superintendent	Division Operations Manager
COG Operating LLC	COG Operating LLC
550 W. Texas, Suite 1300	550 W. Texas, Suite 1300
Midland, TX 79701	Midland, TX 79701
Phone (432) 683-7443 (office)	Phone (505) 746-2210 (office)
(432) 631-9762 (cell)	(432) 238-7591 (cell)

*Surface Use Plan  
COG Operating, LLC  
Redbud Federal #2  
330' FNL & 2340' FWL UL C  
Section 25, T-17-S, R-27-E  
Eddy County, New Mexico*

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I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently 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 COG Operating, LLC, 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 12th day of August, 2011.

Signed: Carl Bird

Printed Name: Carl Bird

Position: Drilling Engineer

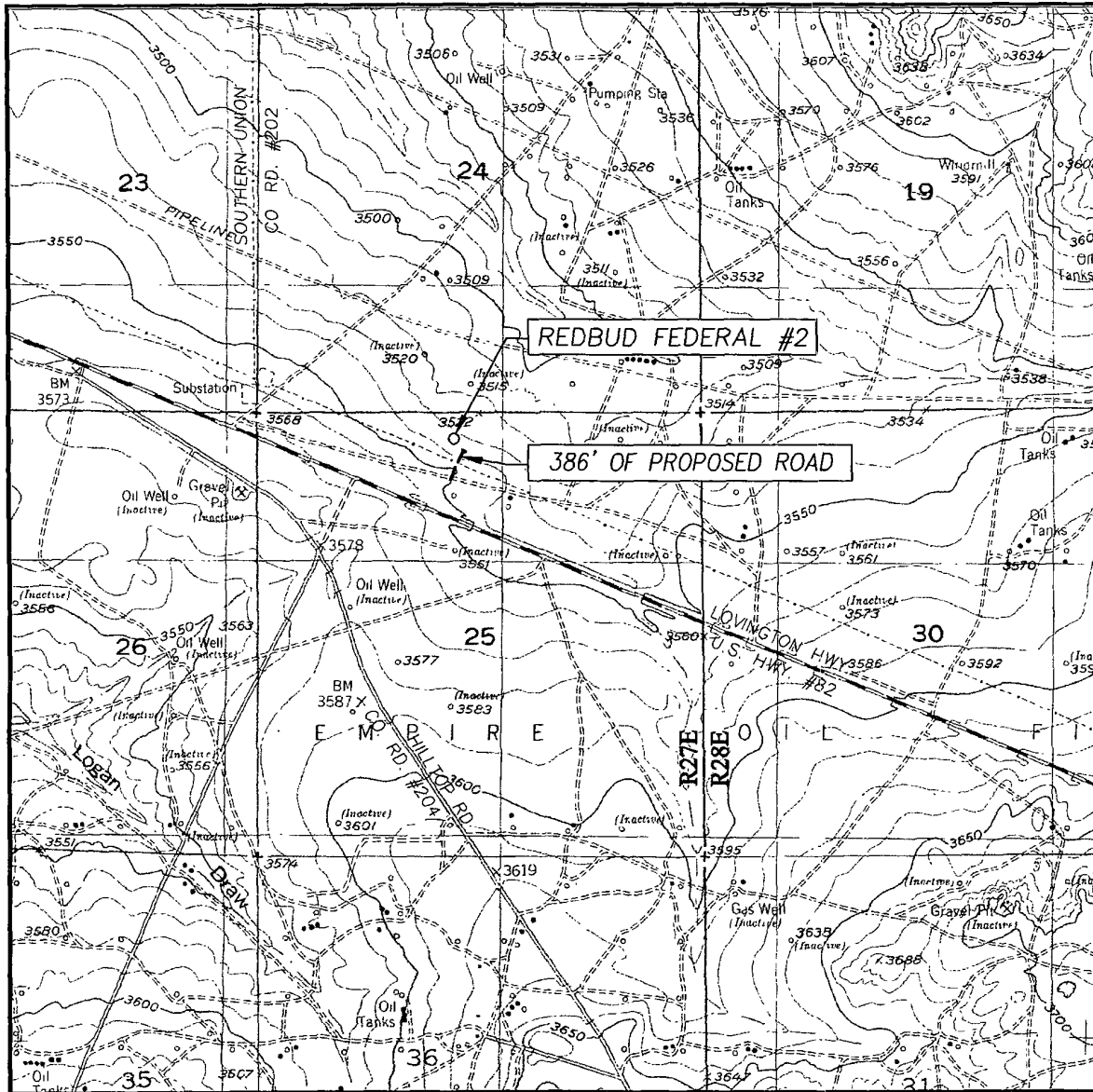
Address: 550 W. Texas, Suite 1300, Midland, Texas 79701

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

E-mail: [cbird@conchoresources.com](mailto:cbird@conchoresources.com)

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
RED LAKE, N.M. - 10'

SEC. 25 TWP 17-S RGE 27-E

SURVEY N.M.P.M

COUNTY EDDY STATE NEW MEXICO


DESCRIPTION 330' FNL & 2340' FWL

ELEVATION 3536'

OPERATOR COG OPERATING, LLC

LEASE REDBUD FEDERAL

U.S.G.S. TOPOGRAPHIC MAP  
RED LAKE, N.M.



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(575) 393-3117

## VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 25 TWP. 17-S RGE. 27-E

SURVEY N.M.P.M.

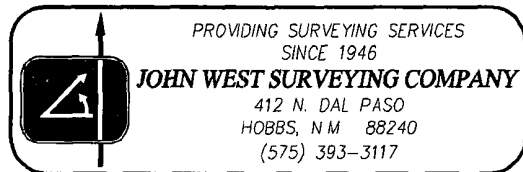
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 330' FNL & 2340' FWL

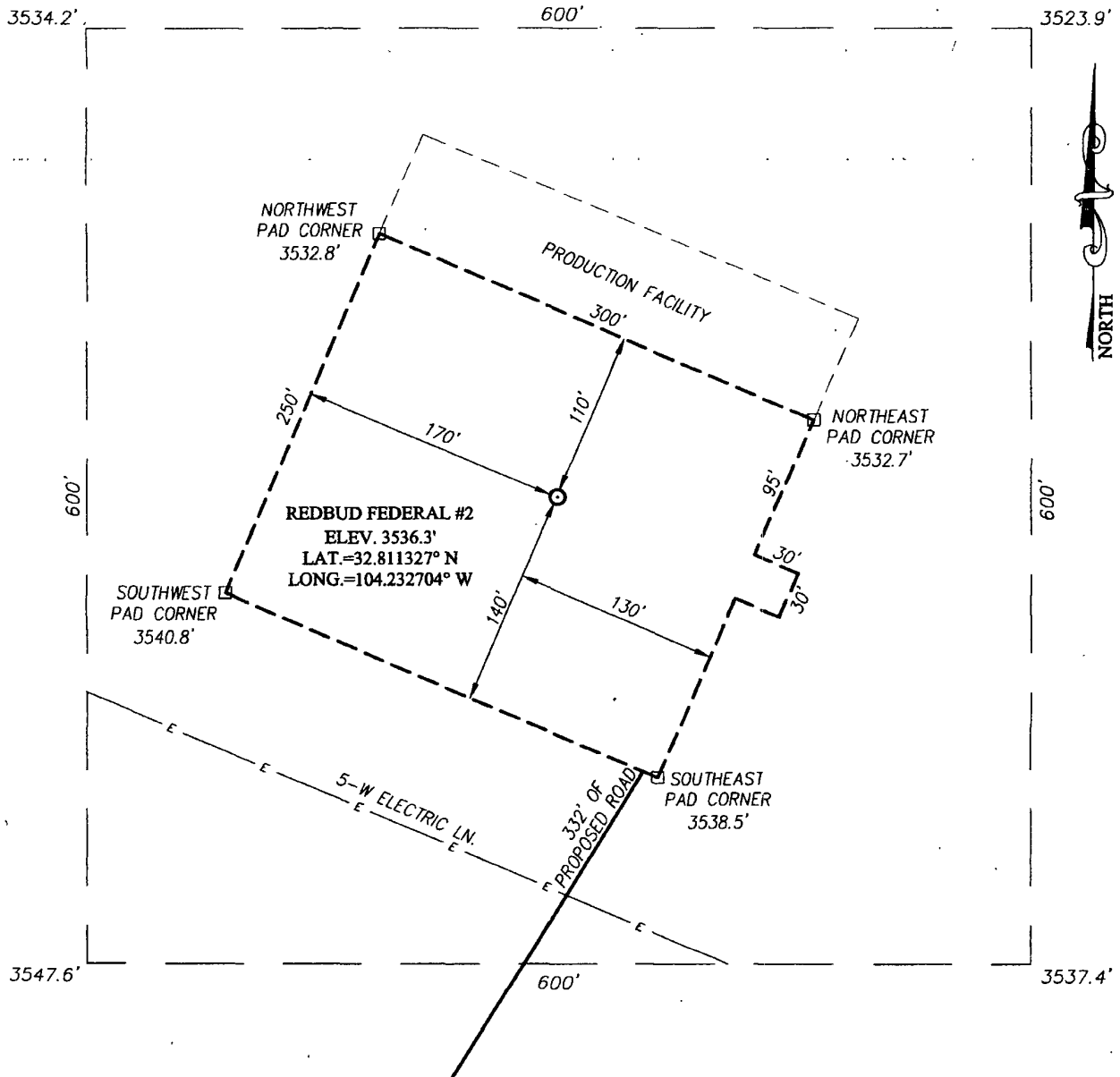
ELEVATION 3536'

OPERATOR COG OPERATING, LLC

LEASE REDBUD FEDERAL

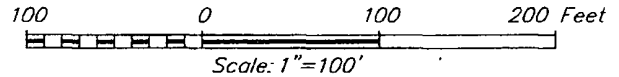


**SECTION 25, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.**  
 EDDY COUNTY NEW MEXICO



**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #202 (SOUTHERN UNION), GO NORTH ON CO. RD. #202 APPROX. 130 FEET, TURN RIGHT AND GO SOUTHEAST APPROX. 0.5 MILES TO A PROPOSED ROAD SURVEY. FOLLOW ROAD STAKES 386 FEET NORTH TO THIS LOCATION.

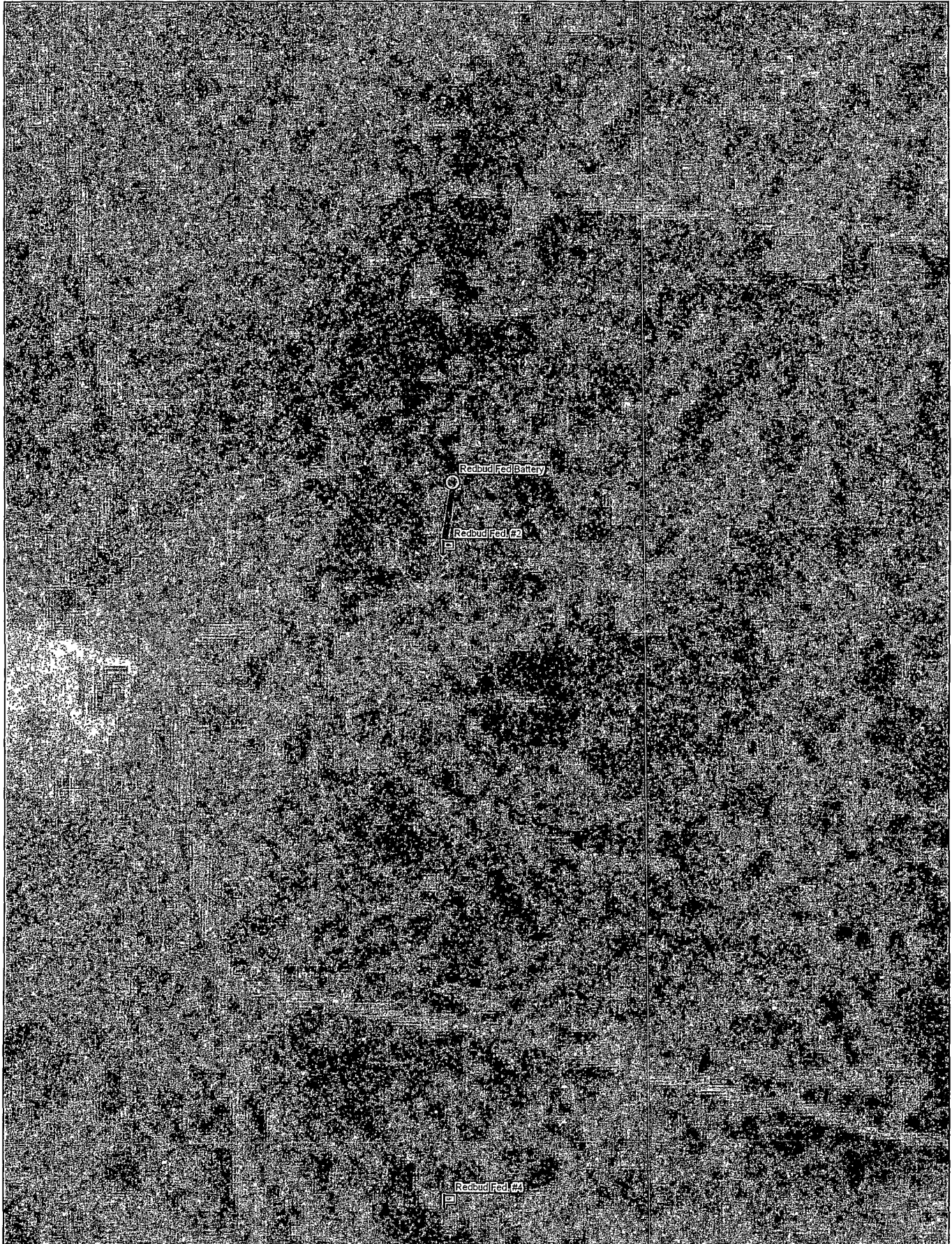


**COG OPERATING, LLC**

REDBUD FEDERAL #2 WELL  
 LOCATED 330 FEET FROM THE NORTH LINE  
 AND 2340 FEET FROM THE WEST LINE OF SECTION 25,  
 TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO

Survey Date: 7/14/11	Sheet 1 of 1 Sheets
W.O. Number: 11.11.1545	Dr. By: LA
Date: 7/28/11	Rel. W.O.: 11111545
	Scale: 1"=100'

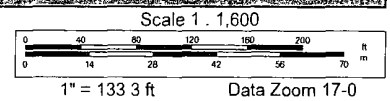
PROVIDING SURVEYING SERVICES  
 SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
 412 N DAL PASO  
 HOBBS, N.M. 88240  
 (575) 393-3117



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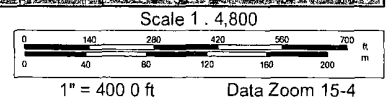




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## Offset wells to Redbud Federal #2

API#	Operator	County	Legal	Lease	Well#	Date Issued	Permitted Depth	Permit TVD	Images	Doc	Total Depth	Well Type	Well Status	Permit#
30-015-39132	COG OPERATING LLC	EDDY	S:25, T:17S, R:27E	DOGWOOD FEDERAL	2	5/4/2011	4,750		Yes	link	4,750	PO	Active Permit	TEMP31688374
30-015-38514	LIME ROCK RESOURCES A, L.P.	EDDY	S:25, T:17S, R:27E	RESLER STATE	004	3/2/2011	3,900		Yes	link	3,900	PO	Active Permit	TEMP2086612170
30-015-38539	COG OPERATING LLC	EDDY	S:25, T:17S, R:27E	BEECH FEDERAL	006	2/23/2011	4,800		Yes	link	4,800	PO	Active Permit	TEMP134774717
30-015-38290	COG OPERATING LLC	EDDY	S:30, T:17S, R:28E	MAPLE STATE	013	11/23/2010	4,800		Yes	link	4,800	PO	Active Permit	TEMP2060345126
30-015-38203	COG OPERATING LLC	EDDY	S:30, T:17S, R:28E	MAPLE STATE	008	9/30/2010	4,750		Yes	link	4,750	PO	Active Permit	TEMP630768619
30-015-38204	COG OPERATING LLC	EDDY	S:30, T:17S, R:28E	MAPLE STATE	012	9/30/2010	4,750		Yes	link	4,750	PO	Active Permit	TEMP1159285768
30-015-38012	COG OPERATING LLC	EDDY	S:30, T:17S, R:28E	MAPLE STATE	007	7/26/2010	4,800		Yes	link	4,800	PO	Active Permit	TEMP1451357427
30-015-37936	COG OPERATING LLC	EDDY	S:30, T:17S, R:28E	MAPLE STATE	11	6/22/2010	4,800		Yes	link	4,800	PO	Active Permit	TEMP850046207
30-015-37672	LIME ROCK RESOURCES A, L.P.	EDDY	S:36, T:17S, R:27E	NO BLUFF 36 STATE COM	10	3/16/2010	4,800		Yes	link	4,658	U	Active Permit	TEMP1496242947
30-015-37641	LIME ROCK RESOURCES A, L.P.	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	11	2/18/2010	4,800		Yes	link	3,258	O	Active Permit	TEMP1722110124
30-015-37313	LIME ROCK RESOURCES A, L.P.	EDDY	S:25, T:17S, R:27E	RESLER STATE	3	10/13/2009			Yes	link	3,855	O	Active Permit	TEMP1982828410
30-015-37217	LIME ROCK RESOURCES A, L.P.	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	10	8/7/2009	3,300		Yes	link	3,233	O	Active Permit	TEMP2025049969
30-015-37056	LIME ROCK RESOURCES A, L.P.	EDDY	S:30, T:17S, R:28E	STALEY STATE	6	5/4/2009	4,000		Yes	link	4,766	O	Active Permit	TEMP849026373
30-015-36976	LIME ROCK RESOURCES A, L.P.	EDDY	S:30, T:17S, R:28E	STALEY STATE	11	3/4/2009	4,000		Yes	link	4,770	U	Active Permit	TEMP1563026244
30-015-32551	LIME ROCK RESOURCES A, L.P.	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	7	1/15/2009	3,600		Yes	link	3,223	O	Active	TEMP1941871256
30-015-35973	SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	RESLER STATE	002	12/10/2007	4,000		Yes	link	3,830	U	Active Permit	TEMP1868511120
30-015-32036	SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	9	5/9/2006	3,500		Yes	link	7,950	PO	Active	TEMP1981383307
30-015-34082	DEVON ENERGY PRODUCTION COMPANY LP or DEVON ENERGY PRODUCTION COMPANY, LP	EDDY	S:26, T:17S, R:27E	EAGLE 26 P FEDERAL	003	4/21/2005	4,000		No	link	3,510	O	Active Permit	TEMP1408197620
30-015-33980	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:23, T:17S, R:27E	OXY VIKING FEDERAL	002	2/28/2005	9,800		No	link	9,800	G	Active	TEMP338617170
30-015-32314	SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	RESLER STATE	002Q	10/31/2004			No	link	4,000	O	Active	TEMP1776298251

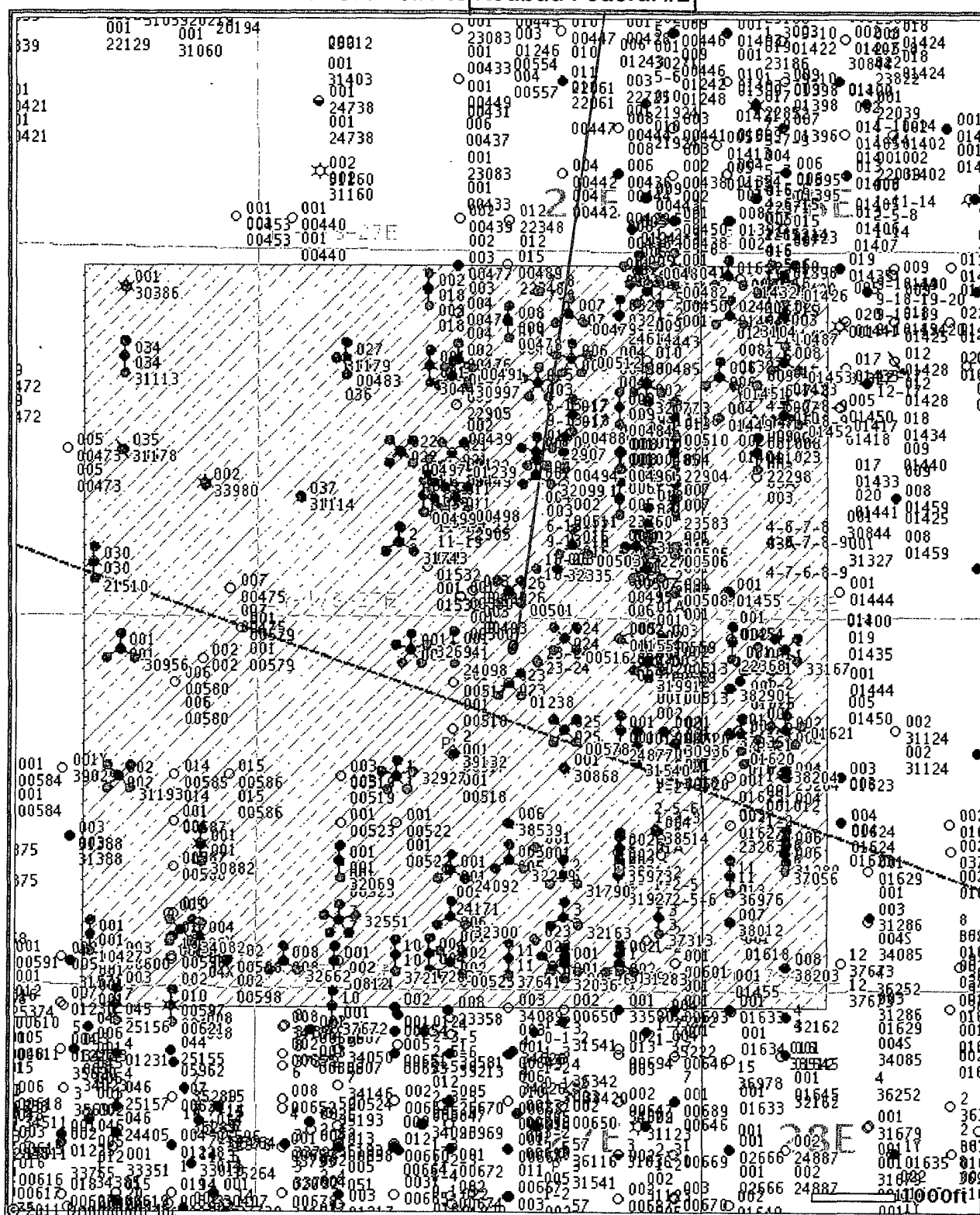
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30-015-33167	MACK ENERGY CORPORATION or MACK ENERGY CORP	EDDY	S:30, T:17S, R:28E	MAPLE STATE	001	1/9/2004	7,500	No	link	7,500	O	Active	TEMP812227321
30-015-33167	MACK ENERGY CORP	EDDY	S:30, T:17S, R:28E	MAPLE STATE	001	12/31/2003		No	link	7,500	O	Active	TEMP503574457
30-015-32551	SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	007	12/31/2003		No	link	3,223	O	Active	TEMP685266231
30-015-32927	MACK ENERGY CORPORATION or MACK ENERGY CORP	EDDY	S:25, T:17S, R:27E	DOGWOOD FEDERAL	1	7/30/2003	7,200	No	link	7,331	O	Active	TEMP1122034865
30-015-32927	MACK ENERGY CORP	EDDY	S:25, T:17S, R:27E	DOGWOOD FEDERAL	001	6/30/2003		No	link	7,331	O	Active	TEMP315347991
30-015-32335	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:24, T:17S, R:27E	OXY SWEET & SOUR FEDERAL	003	6/28/2003	7,200	No	link	7,200	O	Active	TEMP121073280
30-015-32177	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:24, T:17S, R:27E	OXY SWEET & SOUR FEDERAL COM	002	6/17/2003	9,700	No	link	9,700	G	Active	TEMP1247002787
30-015-32177	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:24, T:17S, R:27E	OXY SWEET & SOUR FEDERAL COM	002	5/31/2003		No	link	9,700	G	Active	TEMP815414226
30-015-32694	MACK ENERGY CORPORATION or MACK ENERGY CORP	EDDY	S:25, T:17S, R:27E	REDBUD FEDERAL	001	3/21/2003	7,200	No	link	7,130	O	Active	TEMP1632810942
30-015-32694	MACK ENERGY CORP	EDDY	S:25, T:17S, R:27E	REDBUD FEDERAL	001	2/28/2003		No	link	7,130	O	Active	TEMP6119247
30-015-32662	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	008	2/24/2003	4,000	No	link	3,220	O	Active	TEMP2134773022
30-015-00526	ASPEN OIL INC	EDDY	S:25, T:17S, R:27E	BRAINARD	001	2/1/2003		No	link		PO	Temporarily Abandoned	TEMP25529186
30-015-01621	ASPEN OIL INC	EDDY	S:30, T:17S, R:28E	SUNRAY STATE	002	2/1/2003		No	link		O	Shut-in	TEMP267653536
30-015-32662	SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	008	1/31/2003		No	link	3,220	O	Active	TEMP1785350200
30-015-32551	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	007	12/12/2002	4,000	No	link	3,223	O	Active	TEMP196929220
30-015-00483	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	BERRY FEDERAL	027	7/1/2002	0	No	link	0	G	Shut-in	TEMP286410677
30-015-00497	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	BERRY A	022	7/1/2002	0	No	link	0	G	Shut-in	TEMP1018272843
30-015-00498	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	BERRY A	011	7/1/2002	0	No	link	0	G	Shut-in	TEMP730480666
30-015-00501	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	BERRY A	026	7/1/2002	0	No	link	0	G	Shut-in	TEMP761645327
30-015-00512	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	BERRY A	006	7/1/2002		No	link	0	PO	Active	TEMP874376754
30-015-00516	HANSON ENERGY	EDDY	S:25, T:17S, R:27E	BERRY B	024	7/1/2002		No	link	0	PO	Active	TEMP514636533
30-015-00578	HANSON ENERGY	EDDY	S:25, T:17S, R:27E	BERRY B	025	7/1/2002	0	No	link	0	O	Pumping	TEMP811192853
30-015-23583	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	SPURCK	007	7/1/2002		No	link	2,310	PO	Active	TEMP183217777

30-015-23589	HANSON ENERGY	EDDY	S 24, T 17S, R:27E	SPURCK	008	7/1/2002		No	link	1,735	PO	Active	TEMP432380463
30-015-24614	HANSON ENERGY	EDDY	S.24, T 17S, R 27E	BERRY A	032Y	7/1/2002	0	No	link	2,360	O	Active	TEMP254025539
30-015-25154	HANSON ENERGY	EDDY	S.24, T.17S, R:27E	BERRY A	033	7/1/2002	0	No	link	615	I	Injection Well	TEMP905931098
30-015-30997	HANSON ENERGY	EDDY	S.24, T.17S, R:27E	SPURCK STATE	009	7/1/2002		No	link	2,980	O	Temporarily Abandoned	TEMP716069813
30-015-32314	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S 25, T:17S, R:27E	RESLER STATE	002	5/31/2002	4,000	No	link	4,000	O	Active	TEMP2081719768
30-015-32299	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S 25, T.17S, R:27E	ENRON FEDERAL	005	5/10/2002	4,000	No	link	3,185	O	Active	TEMP1490884053
30-015-32300	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	ENRON FEDERAL	006	5/10/2002	4,000	No	link	3,180	O	Active	TEMP1099979171
30-015-32299	SDX RESOURCES INC	EDDY	S.25, T:17S, R 27E	ENRON FEDERAL	005	4/30/2002		No	link	3,185	O	Active	TEMP313586005
30-015-32300	SDX RESOURCES INC	EDDY	S 25, T.17S, R:27E	ENRON FEDERAL	006	4/30/2002		No	link	3,180	O	Active	TEMP933168997
30-015-32163	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S.25, T.17S, R:27E	ENRON FEDERAL	003	1/14/2002		No	link	3,177	O	Pumping	TEMP1970958305
30-015-32163	SDX RESOURCES INC	EDDY	S.25, T 17S, R:27E	ENRON FEDERAL	003	12/31/2001		No	link	3,177	O	Pumping	TEMP1430791186
30-015-32099	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:24, T 17S, R:27E	OXY SWEET & SOUR STATE	004	11/14/2001		No	link	7,370	O	Flowing	TEMP1188893918
30-015-32069	MACK ENERGY CORP	EDDY	S:25, T.17S, R:27E	FIR FEDERAL	001	10/23/2001		No	link	7,208	O	Pumping	TEMP701016988
30-015-32036	MACK ENERGY CORP	EDDY	S:25, T.17S, R:27E	BEECH FEDERAL	003	10/4/2001	7,800	Yes	link	7,950	PO	Active	TEMP187361883
30-015-32037	MACK ENERGY CORP	EDDY	S:25, T.17S, R:27E	BEECH FEDERAL	004	10/4/2001		No	link	7,800	O	Active	TEMP312020526
30-015-32037	MACK ENERGY CORPORATION or MACK ENERGY CORP	EDDY	S:25, T 17S, R:27E	BEECH FEDERAL	004	10/4/2001	7,800	No	link	7,800	O	Active	TEMP207894890
30-015-31991	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S.25, T 17S, R:27E	OXY MEARBALL STATE	001	9/13/2001		No	link	9,810	G	Pumping	TEMP2116892941
30-015-31994	MARBOB ENERGY CORP	EDDY	S 25, T 17S, R:27E	STATE 25	002	9/13/2001		No	link	8,150	O	Flowing	TEMP2019173059
30-015-30936	MACK ENERGY CORP	EDDY	S 25, T 17S, R:27E	EVERGREEN STATE	001	8/30/2001		No	link		PO	Unknown	TEMP2115016813
30-015-31114	SDX RESOURCES INC	EDDY	S 24, T.17S, R:27E	BERRY A FEDERAL	037	8/7/2001		No	link		PO	Unknown	TEMP471467796
30-015-31178	SDX RESOURCES INC	EDDY	S 23, T.17S, R:27E	BERRY FEDERAL	035	8/7/2001		No	link		X	Cancelled	TEMP1598142510
30-015-31927	MARBOB ENERGY CORP	EDDY	S:25, T.17S, R:27E	STATE 25	001	8/6/2001	8,200	Yes	link	8,130	O	Flowing	TEMP1549742414
30-015-31441	SDX RESOURCES INC	EDDY	S:25, T:17S, R:27E	RESLER STATE	002	8/1/2001		No	link		O	Active	TEMP755819898
30-015-31790	MACK ENERGY CORP	EDDY	S:25, T:17S, R 27E	BEECH FEDERAL	002	5/15/2001	7,800	Yes	link	7,800	PO	Pumping	TEMP1828999834

30-015-31743	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S.24, T:17S, R.27E	OXY CHOPSTICKS FEDERAL	002	4/24/2001			No	link	9,800	O	Flowing	TEMP589338877
30-015-31540	SDX RESOURCES INC	EDDY	S:25, T.17S, R.27E	S W STATE	001	1/11/2001			No	link	4,000	O	Active	TEMP610415462
30-015-31540	SDX RESOURCES, INC or SDX RESOURCES INC	EDDY	S.25, T:17S, R:27E	S W STATE	001	1/11/2001	4,000		No	link	4,000	O	Active	TEMP262913982
30-015-30446	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S.24, T:17S, R.27E	OXY CHOPSTICKS STATE COM	001	1/1/2001			No	link	9,800	G	Shut-in	TEMP173438996
30-015-30882	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:26, T:17S, R:27E	OXY HARVESTER FEDERAL	001	1/1/2001			No	link	9,820	G	Active	TEMP1502865989
30-015-31314	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:24, T.17S, R:27E	OXY SWEET & SOUR STATE	001	1/1/2001			No	link	9,800	G	Active	TEMP1973303336
30-015-00594	SDX RESOURCES INC	EDDY	S.26, T.17S, R.27E	HANSON TRIGG FEDERAL	001	12/31/2000		415	No	link	415	PO	Shut-in	TEMP1345594013
30-015-31289	SDX RESOURCES INC	EDDY	S:30, T:17S, R.28E	STALEY STATE	006	8/10/2000			No	link	9,960	O	Active	TEMP380205686
30-015-31289	SDX RESOURCES, INC. or SDX RESOURCES INC	EDDY	S:30, T.17S, R.28E	STALEY STATE	006	8/10/2000	4,000		No	link	9,960	O	Active	TEMP10642486
30-015-31283	SDX RESOURCES INC	EDDY	S:25, T.17S, R:27E	RESLER STATE	001	8/9/2000			No	link	3,600	O	Pumping	TEMP39702910
30-015-31193	SDX RESOURCES INC	EDDY	S:26, T:17S, R.27E	TRIGG FEDERAL	002	6/16/2000	4,000		Yes	link	3,690	PO	Pumping	TEMP2117938274
30-015-30386	SDX RESOURCES INC	EDDY	S:23, T.17S, R:27E	WODEN FEDERAL	001	5/3/2000			No	link	9,630	G	Active	TEMP1538359528
30-015-31113	SDX RESOURCES INC	EDDY	S:23, T:17S, R.27E	BERRY FEDERAL	034	4/26/2000			No	link	3,075	PO	Pumping	TEMP576504246
30-015-30997	SDX RESOURCES INC	EDDY	S:24, T.17S, R:27E	SPURCK	9	3/7/2000	3,100		Yes	link	2,980	O	Temporarily Abandoned	TEMP847895172
30-015-00480	SDX RESOURCES INC	EDDY	S.24, T:17S, R.27E	BERRY A	005	2/1/2000			No	link	0	PO	Temporarily Abandoned	TEMP416071056
30-015-01238	SDX RESOURCES INC	EDDY	S.25, T.17S, R:27E	BERRY B	023	2/1/2000	0		No	link	0	O	Shut-in	TEMP845912199
30-015-01239	SDX RESOURCES INC	EDDY	S.24, T:17S, R.27E	BERRY A	021	2/1/2000			No	link	0	PO	Shut-in	TEMP819749274
30-015-21510	SDX RESOURCES INC	EDDY	S.23, T:17S, R.27E	BERRY FEDERAL	030	2/1/2000	0		No	link	0	G	Shut-in	TEMP471602425
30-015-30956	SDX RESOURCES INC	EDDY	S:26, T:17S, R:27E	TRIGG FEDERAL	001	1/28/2000			No	link	3,600	O	Pumping	TEMP355855947
30-015-30868	MACK ENERGY CORP	EDDY	S:25, T:17S, R.27E	BIRCH FEDERAL	001	12/14/1999			No	link	7,814	O	Active	TEMP1263536849
30-015-30812	MACK ENERGY CORP	EDDY	S:25, T:17S, R.27E	BEECH FEDERAL	001	10/28/1999			No	link	7,244	O	Pumping	TEMP595200412
30-015-22907	JKM ENERGY, LLC	EDDY	S:24, T:17S, R.27E	SCHNEIDER	001	8/1/1999	0		No	link	1,735	O	Pumping	TEMP1345808004
30-015-00621	MCQUADRANGLE, LC	EDDY	S:35, T.17S, R:27E	SOUTH RED LAKE GRAYBURG UNIT	003	5/10/1999	0		No	link	0	PI	Active	TEMP933258660
				SOUTH RED LAKE										

30-015-25156	MCQUADRANGLE, LC	EDDY	S 35, T 17S, R 27E	GRAYBURG UNIT	045	5/10/1999	0	No	link	2,502	O	Active	TEMP1043286455
30-015-24092	MACK ENERGY CORP	EDDY	S:25, T:17S, R:27E	SPRUCE FEDERAL	001	7/13/1998		No	link	9,985	G	Pumping	TEMP844153731
30-015-22298	RODNEY B WEBB DBA WEBB OIL CO	EDDY	S 19, T 17S, R:28E	J B ADAMSON STATE	001	8/1/1996	0	No	link	0	O	Pumping	TEMP553636019
30-015-24877	RODNEY B WEBB DBA WEBB OIL CO	EDDY	S 25, T 17S, R 27E	MICHAEL STATE	001	1/1/1995		No	link	2,038	PG	Active	TEMP1123806244
30-015-00525	PRONGHORN MANAGEMENT CORP	EDDY	S:25, T:17S, R:27E	BRAINARD	002	5/1/1994	0	No	link	0	O	Temporarily Abandoned	TEMP620827229
30-015-23760	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	SPURCK	006Y	6/1/1982		No	link	0	PO	Active	TEMP2055220675
30-015-24098	MWJ PRODUCING CO	EDDY	S 25, T:17S, R:27E	ROPER FEDERAL	001	5/1/1982		No	link	0	PO	Pumping	TEMP403971701
30-015-23104	J D R LTD	EDDY	S:19, T:17S, R:28E	BROOKS	024	7/1/1980	0	No	link	0	O	Active	TEMP1123648354
30-015-22904	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	SPURCK	004	6/1/1979	0	No	link	0	O	Active	TEMP1194601687
30-015-22795	HANSON ENERGY	EDDY	S:24, T:17S, R:27E	WEST	002	3/1/1979	0	No	link	0	O	Active	TEMP1049284547
30-015-22368	HANSON ENERGY	EDDY	S:30, T:17S, R:28E	WEST	001	12/6/1977		No	link	550	PO	Active	TEMP312367810
30-015-01426	J D R LTD	EDDY	S:19, T 17S, R:28E	BROOKS	010	1/1/1970		No	link	0	PO	Active	TEMP1800036636
30-015-01432	J D R LTD	EDDY	S:19, T:17S, R:28E	BROOKS	016	1/1/1970		No	link	0	PO	Active	TEMP504624600
30-015-01451	J D R LTD	EDDY	S:19, T:17S, R:28E	BROOKS	006	1/1/1970		No	link	0	PO	Active	TEMP1630529292
30-015-01452	J D R LTD	EDDY	S 19, T:17S, R:28E	BROOKS	007	1/1/1970		No	link	0	PO	Shut-in	TEMP1638224270
30-015-01620	BABER WELL SERVICING CO	EDDY	S 30, T 17S, R:28E	SUNRAY STATE	001	1/1/1970		No	link		PD	Active	TEMP183873428
30-015-23264	STEVENS OPERATING CORPORATION or HANAGAN PETROLEUM CORP	EDDY	S 30, T 17S, R:28E	PRE-ONGARD WELL	004	1/1/1970		No	link		PO	Active Permit	TEMP358089382
30-015-31179	STEVENS OPERATING CORPORATION or HANAGAN PETROLEUM CORP	EDDY	S:24, T:17S, R:27E	PRE-ONGARD WELL	036	1/1/1970		No	link		PO	Active Permit	TEMP1904335560
30-015-10426	ACHEN OIL & GAS INC.	EDDY	S:26, T:17S, R:27E	HARBOLD	017	5/21/1963		No	link	1,680	O	Shut-in	TEMP1507021606
30-015-10427	ACHEN OIL & GAS INC.	EDDY	S:26, T 17S, R:27E	TRIGG	001	11/28/1962	0	No	link	0	O	Active	TEMP1523181060
30-015-00494	HANSON ENERGY	EDDY	S 24, T:17S, R:27E	SCHNEIDER	001	3/2/1941		No	link		O	Temporarily Abandoned	TEMP985569187

## Offset wells to Redbud Federal #2



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300'

Redbud Federal #2 Production Facility Location

70'

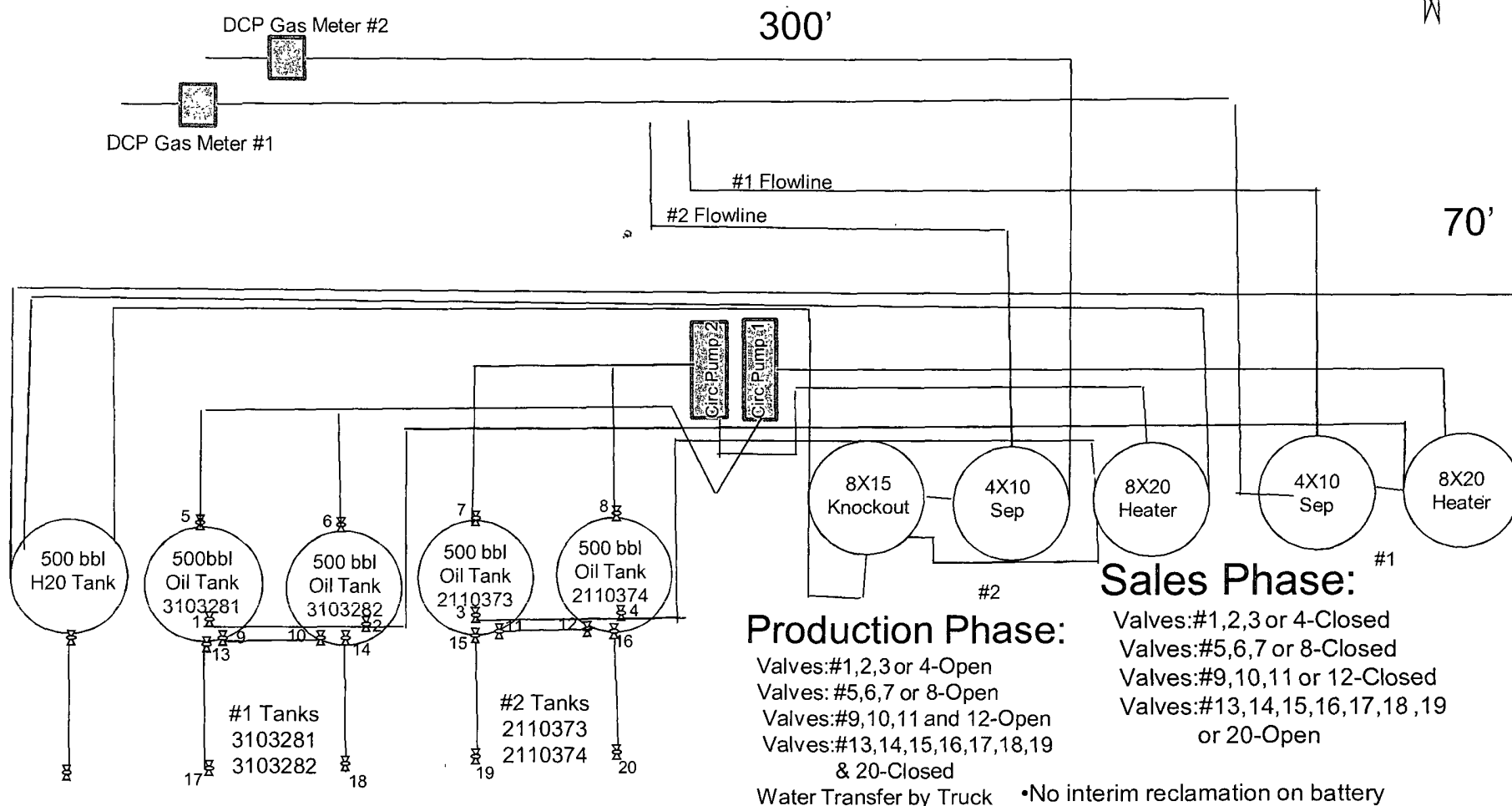
- RedbudFederal  
#2 well location

# COG OPERATING LLC

550 W. Texas Ave Ste 100 Midland, Texas 79701  
(432)-683-7443

## Redbud Federal #2 Tank Battery

330' FNL, 2340' FWL \* Sec 25-T17S-R27E \* Eddy CO, NM



### Sales Phase:

Valves: #1, 2, 3 or 4 - Closed  
Valves: #5, 6, 7 or 8 - Closed  
Valves: #9, 10, 11 or 12 - Closed  
Valves: #13, 14, 15, 16, 17, 18, 19  
or 20 - Open

### Production Phase:

Valves: #1, 2, 3 or 4 - Open  
Valves: #5, 6, 7 or 8 - Open  
Valves: #9, 10, 11 and 12 - Open  
Valves: #13, 14, 15, 16, 17, 18, 19  
& 20 - Closed

Water Transfer by Truck

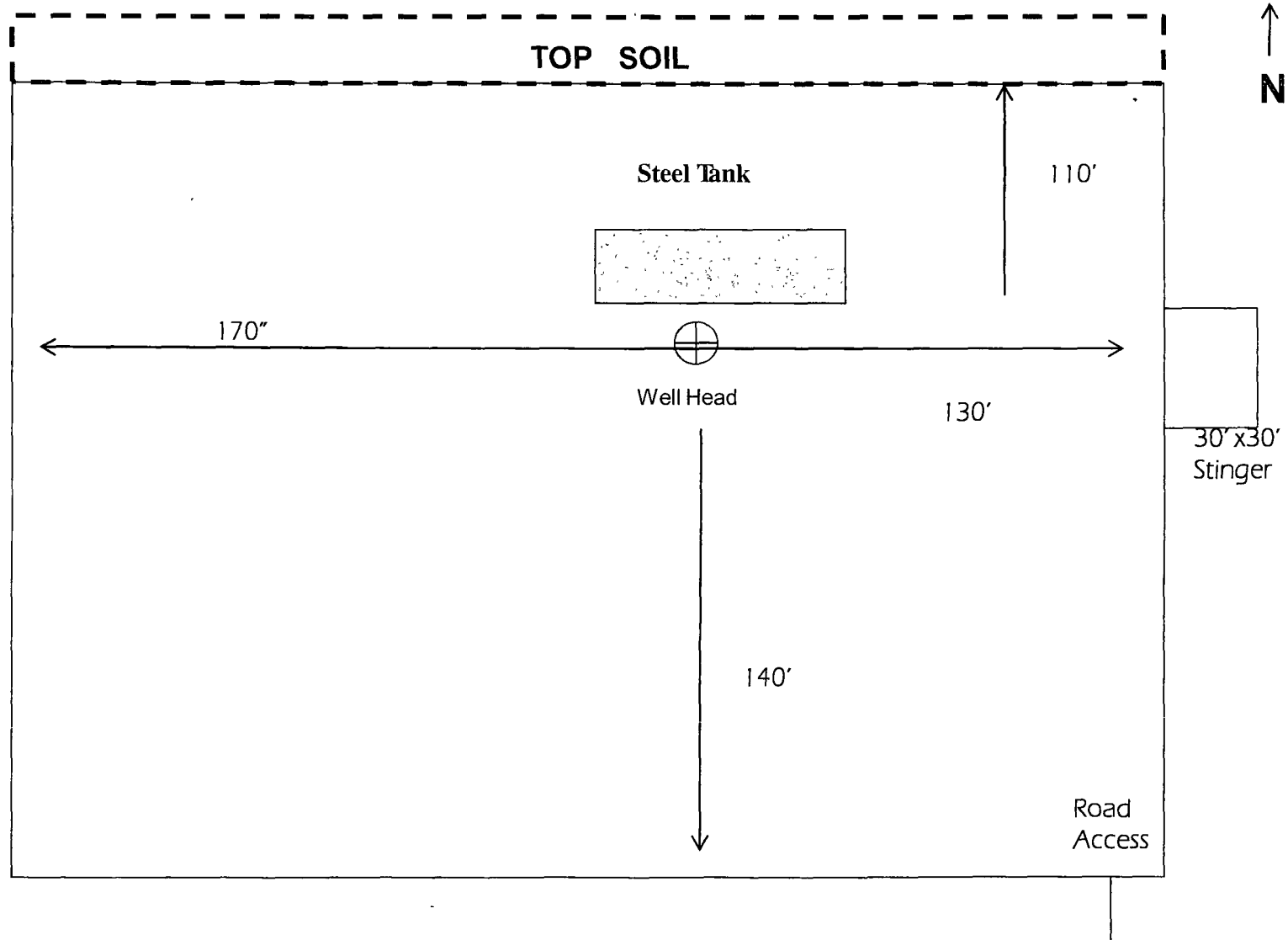
• No interim reclamation on battery pad. Reclamation standards will follow Section 10 B from the Surface Use Plan from the Redbud Federal #2 well attached.

• Road access will same entrance as the Redbud Federal #2 well on the south.

• Battery pad will be approx. 70' x 300'

• This battery site will be located directly north of the Redbud Federal #2 well location

Road



Not To Scale

**Exhibit #6**

COG OPERATING LLC  
Rig Layout-Closed Loop  
System Redbud Fed. #2

