

SURFACE USE AND OPERATING PLAN

1. Existing & Proposed Access Roads

- A. The well site survey and elevation plat for the proposed well is shown in Exhibit #1. It was staked by John West Engineering, Hobbs, NM.
- B. All roads to the location are shown in the topographic map Exhibit #2. 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.
- C. ~~Directions to Location: From the intersection of U.S. HWY. #82 and Co. Rd. #214 (Barnaval Draw Rd.), go North on Co. Rd. #214 approx 200 feet. Turn Right and go Northeast approx 0.4 miles. Turn Left and go North approx 0.5 miles. Turn Right and go Northeast approx 0.1 mile. Turn Right at proposed road survey stakes and go south approx 27 feet. This location stake is approx 212 feet Southwest. 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.

Do not
 follow these
 directions.
 See COAs

2. Proposed Access Road:

Exhibit #4 shows that ~~27.2'~~ ^{0'} 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 nearest BLM approved caliche pit or reserve pit area.

3. Location of Existing Well:

Exhibit #5 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 Dodd Federal North tank battery located at the Dodd Federal #43 well location. The facility location is shown in Exhibit #5.
 - 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 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 Dodd Federal tank battery located at the Dodd Federal #43 well location. The flowline will be SDR 7 3" poly line laid on the surface and will be approximately 2980' 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:
 - a) 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 #2. 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:

All caliche required for construction of the drill pad and proposed new access road (approximately 2500 cubic yards) will be obtained from a BLM approved caliche pit or the reserve 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. 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 Exhibit #4. Dimensions of the pad and pits are shown on Exhibit #6. V door direction is West. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.
- B. Exhibit #6 also 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. The location and road will be rehabilitated as recommended by the BLM.
- B. Upon completion of proposed operations, if the well is completed, the reserve pit area will be closed as outlined in Section 4.6 above within the same prescribed time. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit. Topsoil removed from the drill site will be used to re-contour the pit area to its original natural level and re-seeded as per BLM specifications.

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 for this site is Bogel 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

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,
Drilling Superintendent
COG Operating LLC
550 W. Texas, Suite 1300
Midland, TX 79701
Phone (432) 683-7443 (office)
(432) 631-9762 (cell)

Erick Nelson.
Division Operations Manager
COG Operating LLC
550 W. Texas, Suite 1300
Midland, TX 79701
Phone (505) 746-2210 (office)
(432) 238-7591 (cell)

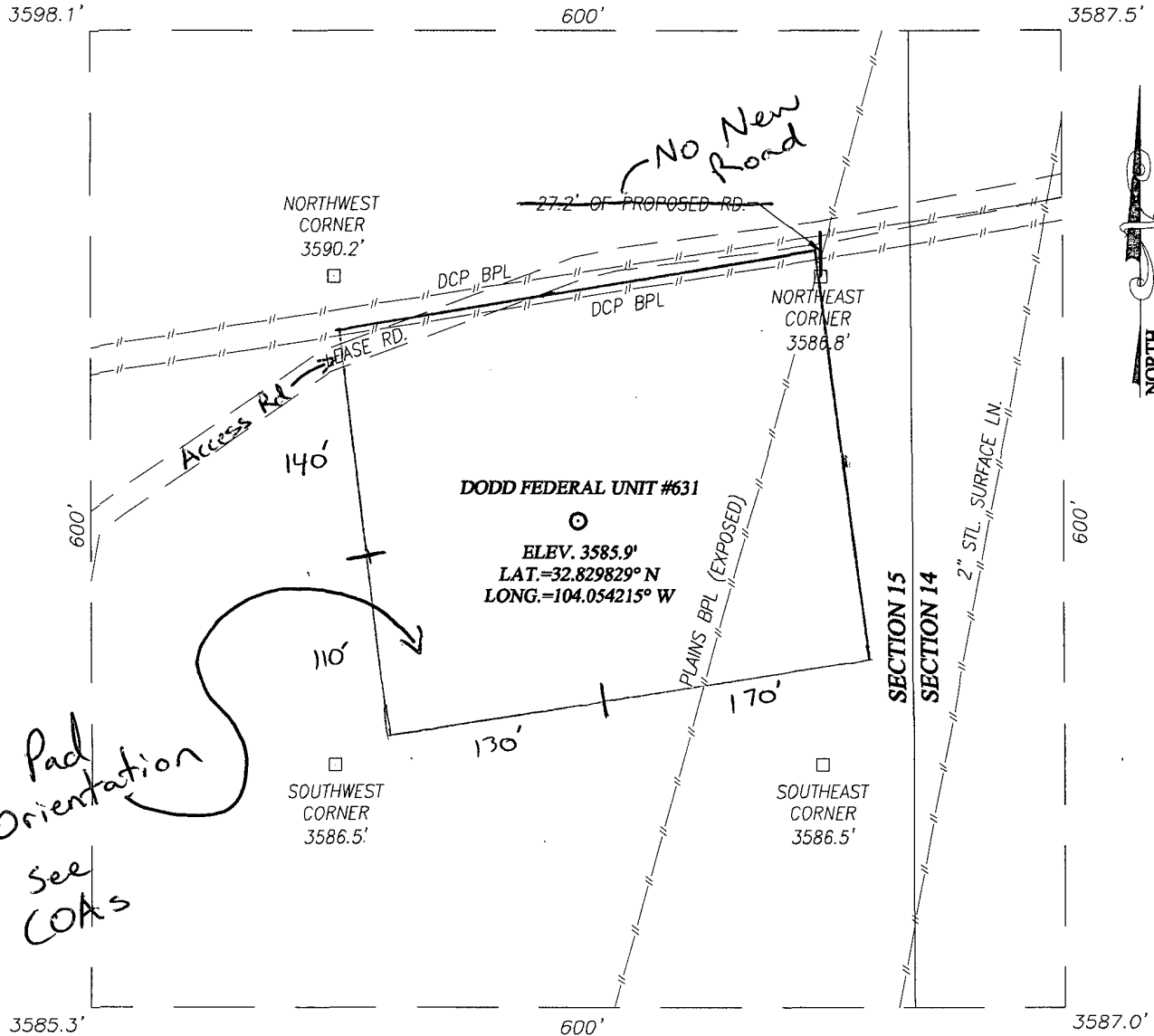
I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this 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 29th day of November, 2010.

Signed: 

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

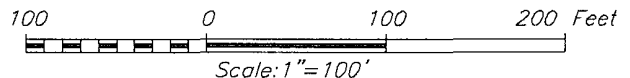
SECTION 15, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.

EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

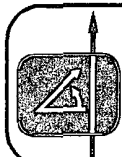
FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #214 (BARNAVAL DRAW RD.), GO NORTH ON CO. RD. #214 APPROX. 200 FEET. TURN RIGHT AND GO NORTHEAST APPROX. 0.4 MILES. TURN LEFT AND GO NORTH APPROX. 0.5 MILES. TURN RIGHT AND GO NORTHEAST APPROX. 0.1 MILE. TURN RIGHT AT PROPOSED ROAD SURVEY STAKES AND GO SOUTH APPROX. 27 FEET. THIS LOCATION STAKE IS APPROX. 242 FEET SOUTHWEST.



COG OPERATING, LLC

DODD FEDERAL UNIT #631 WELL
LOCATED 956 FEET FROM THE SOUTH LINE
AND 206 FEET FROM THE EAST LINE OF SECTION 15,
TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

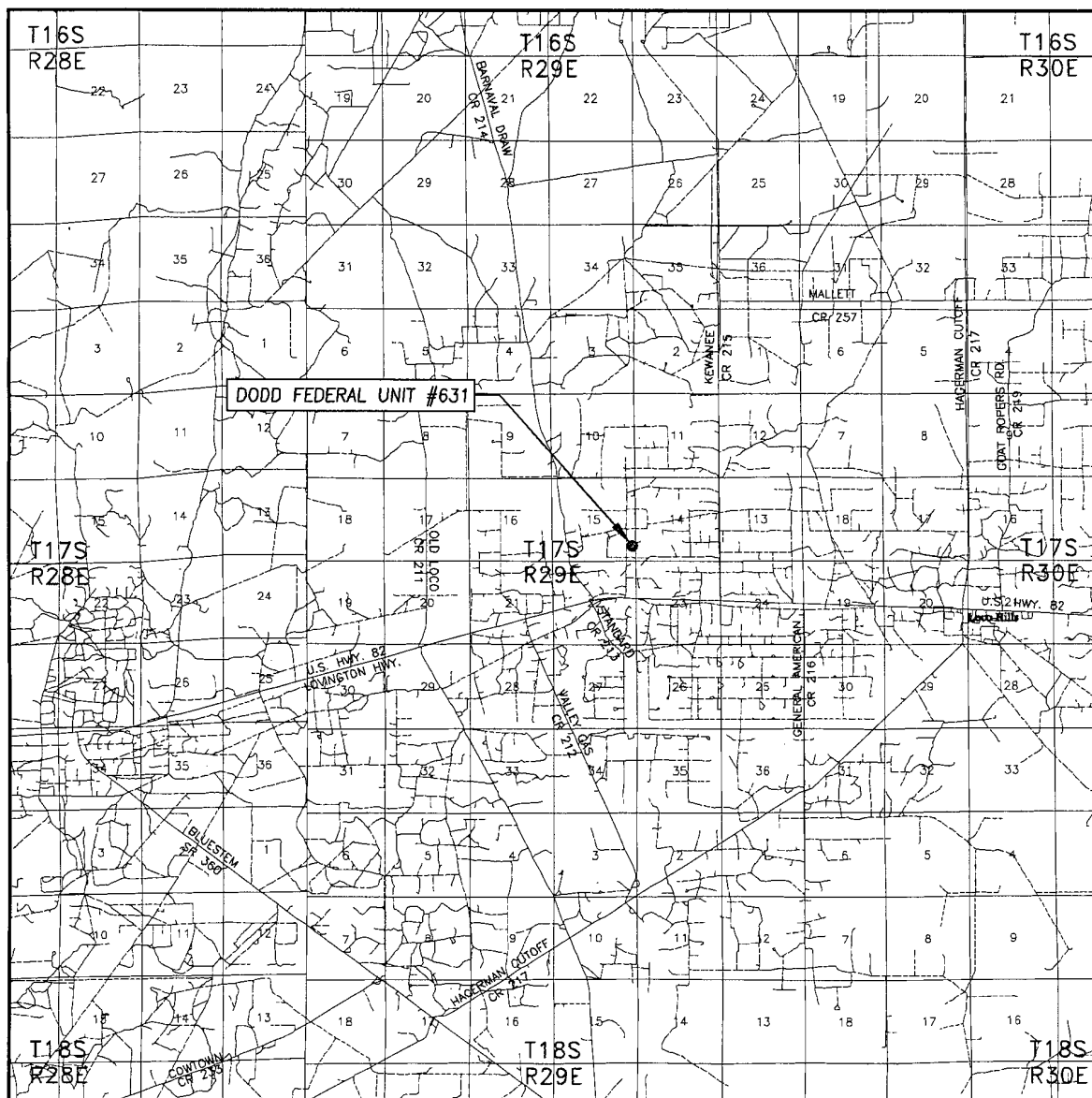
Survey Date: 11/1/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.1485	Dr By: DSS
Date: 11/4/10	10111485
	Scale: 1" = 100'



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

TEN
1/31/11

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 15 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M.

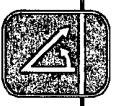
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 956' FSL & 206' FEL

ELEVATION 3586'

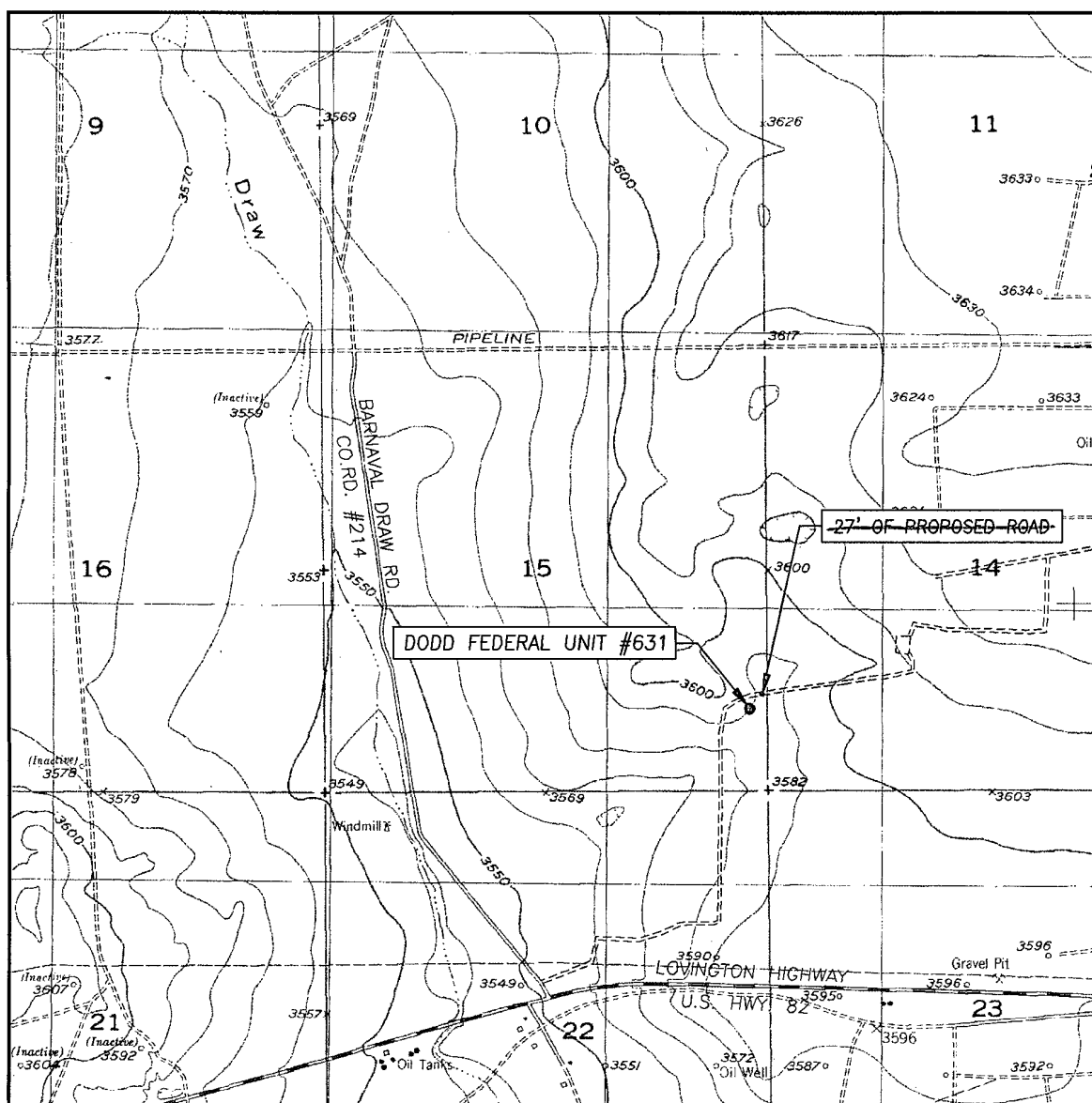
OPERATOR COG OPERATING, LLC

LEASE DODD FEDERAL UNIT



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

LOCATION VERIFICATION MAP



No
New
Road

SCALE: 1" = 2000'

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

SEC. 15 TWP. 17-S RGE. 29-E

SURVEY _____ N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 956' FSL & 206' FEL

ELEVATION 3586'

OPERATOR COG OPERATING, INC.

LEASE DODD FEDERAL UNIT

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



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

TEN
2/28/11

Offset wells to Dodd Federal Unit #631

API#	Operator	County	Legal	Lease	Well#	Date Issued	Permitted Depth	Permit TVD	Images	Doc	Total Depth	Well Type	Well Status	Permit#
30-015-37571	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	263	2/10/2010	5,550		Yes	link	5,550	PO	Active Permit	TEMP837532792
30-015-37572	COG OPERATING LLC	EDDY	S:15, T:17S, R:29E	GJ WEST COOP UNIT	271	2/10/2010	5,550		Yes	link	5,550	PO	Active Permit	TEMP2003521173
30-015-37574	COG OPERATING LLC	EDDY	S:15, T:17S, R:29E	GJ WEST COOP UNIT	273	2/10/2010	5,550		Yes	link	5,550	PO	Active Permit	TEMP257030212
30-015-37439	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	265	12/21/2009	5,600		Yes	link	5,630	O	Active Permit	TEMP1124110498
30-015-26753	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	96	10/23/2009	5,600		Yes	link	4,496	PO	Pumping	TEMP1531519804
30-015-37293	COG OPERATING LLC	EDDY	S:15, T:17S, R:29E	G J WEST COOP UNIT	268	9/30/2009	5,550		Yes	link	5,508	O	Active Permit	TEMP766115193
30-015-37232	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	266	8/21/2009	5,550		Yes	link	5,530	O	Active Permit	TEMP1780990023
30-015-37152	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	260	7/9/2009	5,550		Yes	link	5,524	O	Active Permit	TEMP1470945970
30-015-37113	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	519	6/10/2009	5,000		Yes	link	5,000	PO	Active Permit	TEMP167893324
30-015-37114	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	DODD FEDERAL UNIT	505	6/10/2009	5,000		Yes	link	5,000	PO	Active Permit	TEMP760961590
30-015-37116	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	510	6/10/2009	5,000		Yes	link	5,651	O	Active Permit	TEMP898480056
30-015-25659	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	85	6/4/2009	6,000		Yes	link	4,580	PO	Pumping	TEMP605054437
30-015-37091	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	531	5/19/2009	5,000		Yes	link	5,000	O	Active Permit	TEMP1656495351
30-015-37072	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	261	5/15/2009	5,550		Yes	link	5,550	PO	Active Permit	TEMP1758589353
30-015-37072	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	261	5/15/2009	5,550		Yes	link	5,550	PO	Active Permit	TEMP253178563
30-015-37051	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	264	4/29/2009	5,600		Yes	link	5,502	O	Active Permit	TEMP1291079884
30-015-25657	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	84	11/13/2008	5,700		Yes	link	4,510	PO	Pumping	TEMP1790120640
30-015-26686	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	95	11/13/2008	5,700		Yes	link	4,518	PO	Pumping	TEMP744356840
30-015-25088	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	62	10/20/2008	5,700		Yes	link	3,508	PO	Pumping	TEMP672863775
	MARBOB													

30-015-38659

30-015-36731	ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	524	10/18/2008	5,000	Yes	link	5,000	PO	Active Permit	TEMP225928711
30-015-26754	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	97	8/22/2008	5,600	Yes	link	5,530	O	Pumping	TEMP734665546
30-015-26781	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	98	8/22/2008	5,700	Yes	link	4,550	O	Pumping	TEMP1807610240
30-015-36416	MEWBOURNE OIL COMPANY	EDDY	S:14, T:17S, R:29E	PACU 14 FED COM	1	7/1/2008	11,000	Yes	link	11,000	PG	Active Permit	TEMP329695045
30-015-28591	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	GJ WEST COOP UNIT	135	4/30/2008	5,800	Yes	link	5,505	O	Pumping	TEMP2055589195
30-015-36267	MARBOB ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	548	4/1/2008	5,000	Yes	link	5,000	PO	Active Permit	TEMP1347495932
30-015-36266	MARBOB ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:10, T:17S, R:29E	DODD FEDERAL UNIT	537	4/1/2008	5,000	Yes	link	5,000	O	Active Permit	TEMP2030025557
30-015-36226	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	191	3/24/2008	5,500	Yes	link	5,463	O	Active Permit	TEMP1898839540
30-015-36179	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	995	2/22/2008	4,800	Yes	link	4,616	O	Active Permit	TEMP950216352
30-015-36178	MARBOB ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	996	2/22/2008	4,800	Yes	link	4,607	O	Active Permit	TEMP1351025048
30-015-36057	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	185	1/22/2008	5,450	Yes	link	5,528	O	Active Permit	TEMP1445503484
30-015-36265	MARBOB ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:10, T:17S, R:29E	DODD FEDERAL UNIT	536	1/3/2008	5,000	Yes	link	5,000	PO	Active Permit	TEMP975264023
30-015-35923	COG OPERATING LLC	EDDY	S:15, T:17S, R:29E	G J WEST COOP UNIT	176	11/13/2007	5,550	Yes	link	5,555	O	Active	TEMP832278011
30-015-35854	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	551	10/2/2007	5,000	Yes	link	4,467	O	Active Permit	TEMP1777009968
30-015-35752	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	175	8/27/2007	5,600	Yes	link	5,629	O	Active Permit	TEMP127469004
30-015-35655	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	165	6/7/2007	5,600	Yes	link	5,622	O	Active	TEMP190836818
30-015-35615	MARBOB ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	525	5/11/2007	5,000	Yes	link	5,010	O	Active Permit	TEMP301979280
	MARBOB												

30-015-35621	ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	526	5/11/2007	5,000	Yes	link	4,600	O	Active Permit	TEMP257348742
30-015-35622	MARBOB ENERGY CORPORATION or MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	523	5/11/2007	5,000	Yes	link	5,000	O	Active Permit	TEMP241121080
30-015-35582	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	160	5/2/2007	5,600	Yes	link	5,600	PO	Active	TEMP2111986444
30-015-35484	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	151	3/21/2007	5,600	Yes	link	5,628	O	Active	TEMP1236730170
30-015-35482	COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	148	3/21/2007	5,500	Yes	link	5,521	O	Active	TEMP882035549
30-015-35457	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	529	3/2/2007	5,000	Yes	link	4,480	O	Active Permit	TEMP1233662511
30-015-35458	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	530	3/2/2007	5,000	Yes	link	5,040	O	Active Permit	TEMP2107307067
30-015-35459	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	532	2/27/2007	5,000	Yes	link	4,480	O	Active Permit	TEMP65199761
30-015-35400	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	977	1/17/2007	4,800	Yes	link	4,800	PG	Active Permit	TEMP1252784504
30-015-35389	MARBOB ENERGY CORP	EDDY	S:23, T:17N, R:29E	BURCH KEELY UNIT	980	1/16/2007	4,800	Yes	link	4,800	PO	Active Permit	TEMP557971541
30-015-35478	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	528	1/5/2007	5,000	Yes	link	4,540	O	Active	TEMP146608333
30-015-35139	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	507	9/9/2006	5,000	Yes	link	5,005	O	Active Permit	TEMP2037358148
30-015-34593	OXY USA WTP LIMITED PARTNERSHIP	EDDY	S:14, T:17S, R:29E	OXY PACU FEDERAL COM	1	2/3/2006	11,000	No	link	11,000	PG	Active Permit	TEMP2127801860
30-015-34499	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	508	12/21/2005	5,000	No	link	4,520	PO	Active Permit	TEMP126662614
30-015-34560	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DODD FEDERAL UNIT	506	12/21/2005	5,000	No	link	4,500	PO	Active Permit	TEMP1032313987
30-015-34561	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	511	12/20/2005	5,000	No	link	4,550	PO	Active Permit	TEMP1221177813
30-015-34655	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	DODD FEDERAL UNIT	501	12/15/2005	5,000	No	link	4,560	O	Active Permit	TEMP1230713781
30-015-34563	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	DODD FEDERAL UNIT	513	12/14/2005	5,000	No	link	4,562	O	Active Permit	TEMP163136951
30-015-34564	MARBOB ENERGY CORP	EDDY	S:11, T:17S, R:29E	DODD FEDERAL UNIT	514	12/14/2005	5,000	No	link	4,550	O	Active Permit	TEMP1084618533
30-015-02940	HANSON ENERGY	EDDY	S:10, T:17S, R:29E	FEATHERSTONE	004	5/1/2003	0	No	link	0	O	Pumping	TEMP1768365238
30-015-32708	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	901	3/26/2003	4,800	No	link	4,610	O	Active	TEMP768664912
30-015-32697	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	900	3/24/2003	4,800	No	link	4,600	O	Active	TEMP245021659
30-015-32698	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	902	3/24/2003	4,800	No	link	4,550	O	Active	TEMP576290462
30-015-32755	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	910	3/24/2003	4,800	No	link	4,630	O	Active	TEMP1089564036
	MARBOB			BURCH KEELY									

30-015-32697	ENERGY CORP	EDDY	S:23, T:17S, R:29E	UNIT	331	2/28/2003			No	link	4,600	O	Active	TEMP980288138
30-015-32698	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	332	2/28/2003			No	link	4,550	O	Active	TEMP1942295156
30-015-32708	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	336	2/28/2003			No	link	4,610	O	Active	TEMP892220215
30-015-32755	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	337	2/28/2003			No	link	4,630	O	Active	TEMP2112990020
30-015-20715	BIRD CREEK LLC	EDDY	S:15, T:17S, R:29E	CONOCO STATE	001	1/1/2003	0		No	link	11,110	O	Flowing	TEMP1974322954
30-015-32458	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	MARY DODD A	050	9/30/2002	5,000		No	link	4,537	O	Active	TEMP1693414916
30-015-32443	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	892	9/11/2002	4,800		No	link	4,770	O	Active	TEMP820657445
30-015-32443	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	330	8/31/2002			No	link	4,770	O	Active	TEMP1010708198
30-015-06194	LOCO HILLS GSF, LTD	EDDY	S:22, T:17S, R:29E	LEONARD	003	7/15/2002			No	link		PM	Plugged	TEMP1602393564
30-015-06192	LOCO HILLS GSF, LTD	EDDY	S:22, T:17S, R:29E	LEONARD	001	7/15/2002			No	link	643	PM	Unknown	TEMP1105868671
30-015-06193	LOCO HILLS GSF, LTD	EDDY	S:22, T:17S, R:29E	LEONARD	002	7/15/2002			No	link		PM	Plugged	TEMP1130877349
30-015-32093	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	320	11/6/2001			No	link	4,540	O	Pumping	TEMP206629976
30-015-32092	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	319	11/5/2001			No	link	4,580	O	Pumping	TEMP180082302
30-015-31974	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	EDDY	S:10, T:17S, R:29E	DURANGO 10 FEDERAL	001	8/28/2001			No	link	10,925	G	Flowing	TEMP1569032171
30-015-31557	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DURANGO 15 STATE COM	001	6/21/2001			No	link	10,900	U	Active	TEMP344954045
30-015-21041	H.L. BROWN OPERATING L.L.C. or H L BROWN OPERATING, LLC	EDDY	S:15, T:17S, R:29E	DODD FEDERAL	001	6/1/2001	0		No	link	0	G	Flowing	TEMP1090401488
30-015-31557	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC or LOUIS DREYFUS NATURAL GAS CORPORATION	EDDY	S:15, T:17S, R:29E	DURANGO "15" STATE COM	1	1/18/2001	11,000		Yes	link	10,900	U	Active	TEMP671541126
30-015-31041	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B DEEP FEDERAL	002	9/30/2000			No	link	11,185	G	Active	TEMP1738545978
30-015-30632	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	302	4/4/2000			No	link	4,570	O	Pumping	TEMP652278116
30-015-31041	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B DEEP FEDERAL	002	3/20/2000	5,000		No	link	11,185	G	Active	TEMP1161639687
30-015-30154	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	PINON FEDERAL	003	3/17/1999			No	link		PO	Unknown	TEMP160737588
30-015-29810	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	853	3/4/1999			No	link	4,570	PO	Unknown	TEMP2075494184
30-015-30040	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	PINON FEDERAL	004	3/4/1999			No	link		PO	Unknown	TEMP1506573916
	MARBOB			BURCH KEELY										

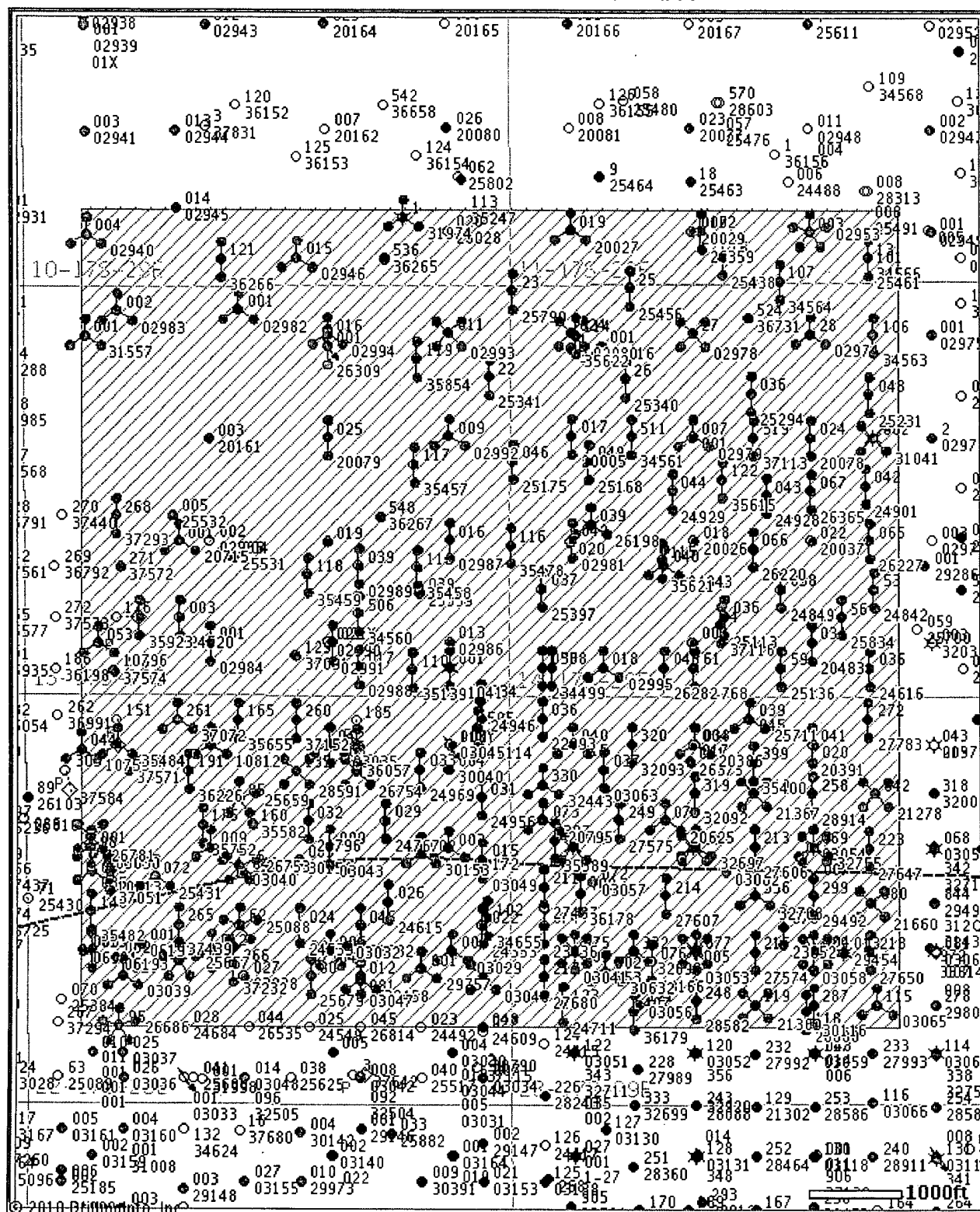
30-015-29492	ENERGY CORP	EDDY	S:23, T:17S, R:29E	UNIT	299	12/14/1998		No	link	4,580	O	Pumping	TEMP1445835019
30-015-30153	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	PINON FEDERAL	002	3/11/1998		No	link	4,565	O	Pumping	TEMP36078944
30-015-30116	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	287	3/4/1998		No	link	4,775	O	Pumping	TEMP142075121
30-015-29757	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	PINON FEDERAL	001	7/25/1997		No	link	6,438	O	Pumping	TEMP353425623
30-015-03050	GRUY PETROLEUM MANAGEMENT CO. or COG OPERATING LLC	EDDY	S:22, T:17S, R:29E	LEONARD STATE COM	001	5/1/1997	0	No	link	0	G	Pumping	TEMP530389097
30-015-27783	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	272	3/17/1997		No	link	4,718	O	Pumping	TEMP1243273208
30-015-29454	EOG RESOURCES INC	EDDY	S:23, T:17S, R:29E	GRAYBURG DEEP UNIT	013	3/13/1997		No	link	11,365	G	Active	TEMP1378103889
30-015-26198	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD A	039	9/20/1996		No	link	11,025	G	Pumping	TEMP1946815075
30-015-26309	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	DELTA WING FEDERAL	001	9/17/1996		No	link	10,950	D	Salt Water Disposal	TEMP1226333627
30-015-28914	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	258	3/26/1996		No	link	4,555	O	Pumping	TEMP701310674
30-015-28591	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	135	7/21/1995		No	link	5,505	O	Pumping	TEMP147586606
30-015-28582	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	248	6/10/1995		No	link	4,622	O	Pumping	TEMP871613231
30-015-27575	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	249	5/1/1995		No	link	4,553	O	Pumping	TEMP743271493
30-015-20408	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	047	7/11/1994	0	No	link	0	D	Salt Water Disposal	TEMP1164533788
30-015-27647	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	223	6/9/1994		No	link	4,600	O	Pumping	TEMP455661561
30-015-27574	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	216	4/12/1994		No	link	4,600	O	Pumping	TEMP1110706692
30-015-27606	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	213	4/12/1994		No	link	4,600	O	Pumping	TEMP1496625163
30-015-27607	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	214	4/12/1994		No	link	4,600	O	Pumping	TEMP1621283807
30-015-27487	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	211	4/11/1994		No	link	4,600	O	Pumping	TEMP1380030922
30-015-26365	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	067	3/10/1994		No	link	4,535	O	Active	TEMP1452254802
30-015-27680	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	217	10/22/1993		No	link	4,600	O	Pumping	TEMP1658017198
30-015-27650	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	218	9/22/1993		No	link	4,600	O	Pumping	TEMP1505641309
30-015-26880	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	118	3/1/1992		No	link	3,575	PO	Pumping	TEMP1736804593
30-015-26781	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	098	11/1/1991		No	link	4,550	O	Pumping	TEMP155174315
30-015-26782	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	046	8/1/1991		No	link	0	PO	Pumping	TEMP181337240
30-015-26359	MARBOB ENERGY CORP	EDDY	S:11, T:17S, R:29E	DELTA WING FEDERAL	002	7/1/1991		No	link	10,910	PG	Pumping	TEMP1897409279
30-015-26753	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	096	7/1/1991		No	link	4,496	PO	Pumping	TEMP649561327

30-015-26754	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	097	7/1/1991			No	link	5,530	O	Pumping	TEMP675724252
30-015-26686	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	095	6/1/1991			No	link	4,518	PO	Pumping	TEMP1210714929
30-015-26282	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD A	043	6/1/1990			No	link	4,555	PO	Pumping	TEMP342965476
30-015-26220	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	066	1/1/1990			No	link	0	PO	Pumping	TEMP1475882421
30-015-26227	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	065	1/1/1990			No	link	4,585	PO	Pumping	TEMP290855809
30-015-25834	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	064	2/1/1988			No	link	4,580	O	Pumping	TEMP161532277
30-015-25790	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	061	12/1/1987			No	link	4,495	O	Pumping	TEMP497971381
30-015-25659	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	085	9/1/1987			No	link	4,580	PO	Pumping	TEMP1676826687
30-015-25679	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	042	9/1/1987			No	link	4,570	O	Pumping	TEMP1660297808
30-015-25657	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	084	1/1/1987			No	link	4,510	PO	Pumping	TEMP1918064247
30-015-25711	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	039	12/31/1986			No	link	4,600	O	Pumping	TEMP1171854169
30-015-25456	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	054	12/1/1986			No	link	4,650	O	Pumping	TEMP1342343905
30-015-25431	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	072	1/1/1986			No	link	5,029	PO	Pumping	TEMP1482882593
30-015-25461	MARBOB ENERGY CORP	EDDY	S:11, T:17S, R:29E	BOYD DODD B	007	1/1/1986			No	link	4,529	O	Pumping	TEMP1720936822
30-015-25340	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	051	12/1/1985			No	link	5,813	O	Pumping	TEMP52740283
30-015-25341	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	M DODD B	052	12/1/1985			No	link	4,518	O	Pumping	TEMP91215173
30-015-25438	MARBOB ENERGY CORP	EDDY	S:11, T:17S, R:29E	M DODD B	053	12/1/1985			No	link	4,525	O	Pumping	TEMP1962943881
30-015-24520	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	CONTINENTAL STATE	003	11/1/1985			No	link	3,400	PO	Pumping	TEMP1411765628
30-015-25231	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	048	11/1/1985			No	link	4,462	PO	Pumping	TEMP1641876119
30-015-25294	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	050	11/1/1985			No	link	4,533	PO	Pumping	TEMP472993636
30-015-25397	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD A	037	11/1/1985			No	link	4,427	PO	Pumping	TEMP1871848407
30-015-24843	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	040	5/1/1985			No	link	3,440	PO	Pumping	TEMP476749180
30-015-25168	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	049	3/1/1985	0		No	link	3,522	O	Pumping	TEMP1831636951
30-015-25175	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	046	3/1/1985			No	link	4,511	PO	Pumping	TEMP1611881029
30-015-24929	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	044	1/1/1985			No	link	3,500	PO	Pumping	TEMP1955849549
30-015-25113	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD A	036	1/1/1985			No	link	3,493	PO	Pumping	TEMP523860116
30-015-25136	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	045	1/1/1985			No	link	3,600	O	Pumping	TEMP1284893440
30-015-24928	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	043	12/1/1984			No	link	3,495	PO	Pumping	TEMP1930840871
	MARBOB													

30-015-24946	ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	034	12/1/1984		No	link	3,518	PO	Pumping	TEMP200640391
30-015-24956	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	031	12/1/1984		No	link	3,450	PO	Pumping	TEMP1417985911
30-015-25088	MACK ENERGY CORP	EDDY	S:22, T:17S, R:29E	G J WEST COOP UNIT	062	12/1/1984		No	link	3,508	PO	Pumping	TEMP1007858908
30-015-24901	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	042	10/1/1984		No	link	3,450	PO	Pumping	TEMP35183040
30-015-24947	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD A	035	10/1/1984		No	link	3,450	PO	Pumping	TEMP325299035
30-015-24969	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	033	10/1/1984		No	link	3,400	PO	Pumping	TEMP1965126491
30-015-24796	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	032	7/1/1984		No	link	3,450	PO	Pumping	TEMP1082359273
30-015-24842	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	037	5/1/1984		No	link	3,450	O	Pumping	TEMP501757858
30-015-24849	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	038	5/1/1984		No	link	3,450	PO	Pumping	TEMP816097710
30-015-24711	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	123	4/1/1984		No	link	3,500	PO	Pumping	TEMP1608174461
30-015-24768	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD A	030	4/1/1984		No	link	3,450	O	Pumping	TEMP630679388
30-015-24616	MARBOB ENERGY CORP	EDDY	S:14, T:17S, R:29E	M DODD B	036	3/1/1984		No	link	3,445	PO	Pumping	TEMP90507257
30-015-24767	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	029	3/1/1984		No	link	3,500	PO	Pumping	TEMP361355158
30-015-24615	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	026	1/1/1984		No	link	3,467	PO	Pumping	TEMP215550649
30-015-24533	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	024	8/1/1983		No	link	3,375	PO	Pumping	TEMP883890137
30-015-24353	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	022	2/1/1983		No	link	4,000	PO	Pumping	TEMP1314718320
30-015-02991	MARBOB ENERGY CORP	EDDY	S:15, T:17S, R:29E	M DODD A	021Y	12/10/1982	3,439	No	link	11,180	O	Pumping	TEMP787801435
30-015-23852	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	078	12/1/1981		No	link	3,300	PO	Pumping	TEMP672664351
30-015-23836	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	074	11/1/1981		No	link	3,240	PO	Pumping	TEMP91831714
30-015-23166	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	076	5/1/1980	0	No	link	3,610	O	Pumping	TEMP1110219084
30-015-22093	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	036	9/1/1977	0	No	link	3,525	O	Pumping	TEMP754094844
30-015-03046	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	011	3/1/1977	0	No	link	3,890	PO	Pumping	TEMP60610690
30-015-21660	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	080	12/1/1975	0	No	link	3,575	O	Pumping	TEMP542974967
30-015-21369	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	119	2/1/1975	0	No	link	0	O	Pumping	TEMP1639114717
30-015-21367	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	040	11/1/1974	0	No	link	0	O	Pumping	TEMP1507530593
30-015-21278	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	042	8/1/1974	0	No	link	3,403	O	Pumping	TEMP1157378445
30-015-01172	MARBOB ENERGY CORP	EDDY	S:22, T:17S, R:29E	M DODD A	003	1/1/1970		No	link	0	PO	Pumping	TEMP1180659066
30-015-20027	MARBOB ENERGY CORP	EDDY	S:11, T:17S, R:29E	M DODD B	019	1/1/1970		No	link	2,700	O	Pumping	TEMP831235377
30-015-20386	MARBOB ENERGY CORP	EDDY	S:23, T:17S, R:29E	BURCH KEELY UNIT	038	1/1/1970		No	link	0	I	Plugged and Abandoned	TEMP633580306

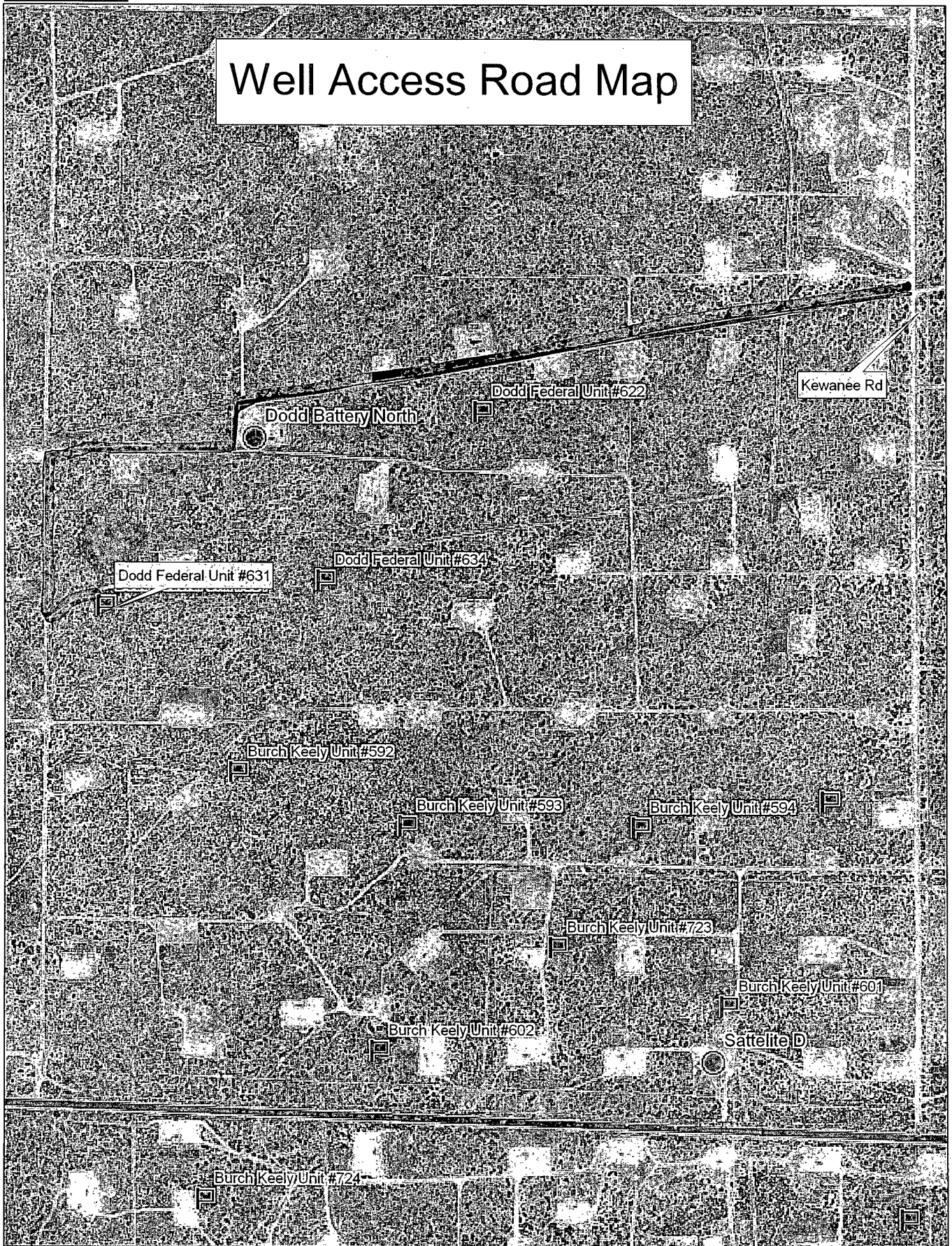
30-015-25359	STEVENS OPERATING CORPORATION or HANAGAN PETROLEUM CORP	EDDY	S:15, T:17S, R:29E	PRE-ONGARD WELL	039	1/1/1970			No	link		PO	Active Permit	TEMP315776152
30-015-25531	STEVENS OPERATING CORPORATION or HANAGAN PETROLEUM CORP	EDDY	S:15, T:17S, R:29E	PRE-ONGARD WELL	004	1/1/1970			No	link		PO	Active Permit	TEMP1582000107
30-015-25532	STEVENS OPERATING CORPORATION or HANAGAN PETROLEUM CORP	EDDY	S:15, T:17S, R:29E	PRE-ONGARD WELL	005	1/1/1970			No	link		PO	Active Permit	TEMP1608547781
30-015-26375	STEVENS OPERATING CORPORATION or HANAGAN PETROLEUM CORP	EDDY	S:23, T:17S, R:29E	PRE-ONGARD WELL	001	1/1/1970			No	link		PO	Active Permit	TEMP1153903350

Offset wells to Dodd Federal Unit #631



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Well Access Road Map



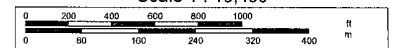
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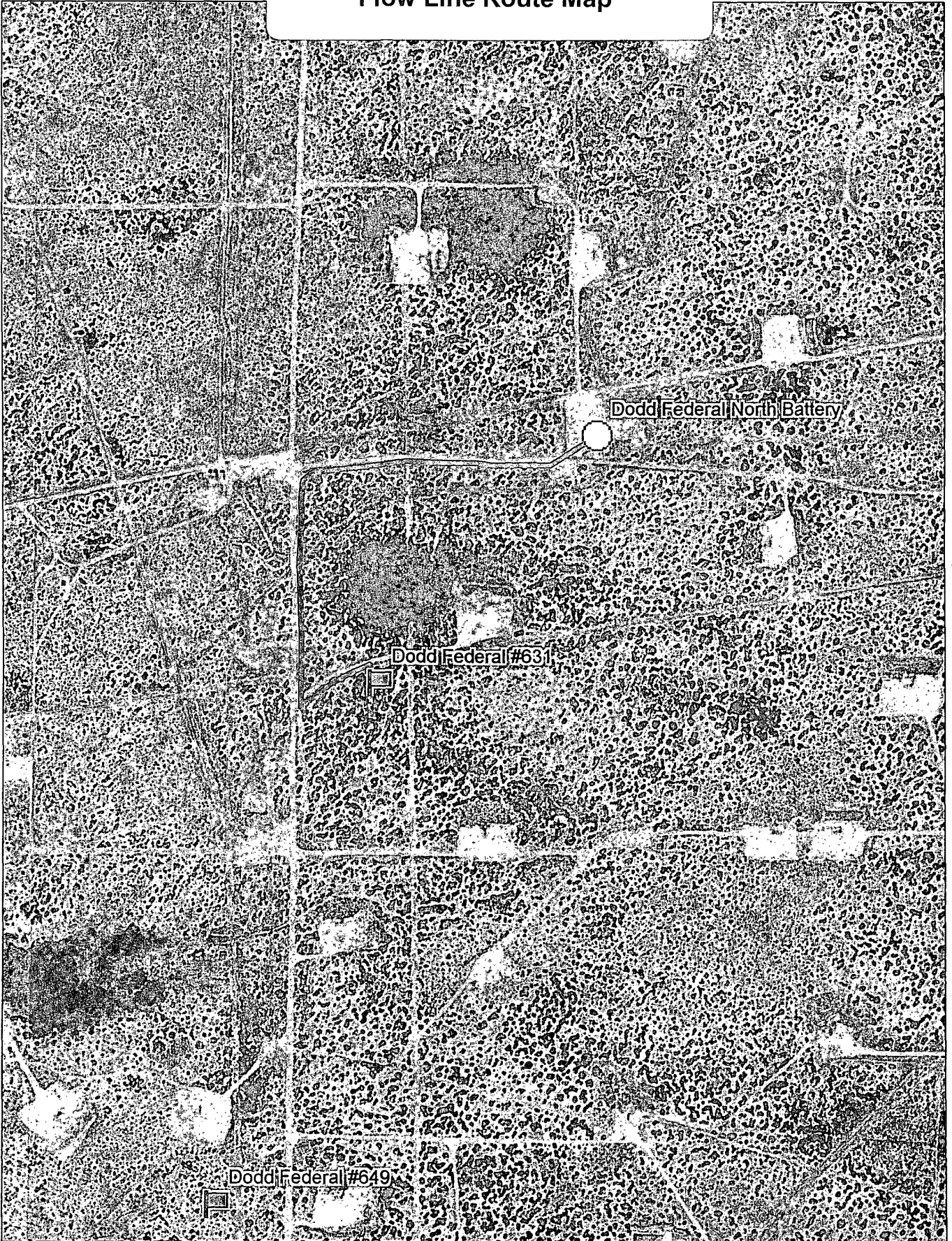


Scale 1 : 10,400



1" = 866.7 ft

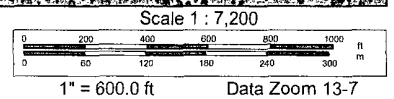
Data Zoom 13-6



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TEN
2/28/11

TOP SOIL

Steel Tank

110'

170'

Well Head

130'

30' x 30'
Stinger

140'

Access

~~27.2' Proposed~~
~~Road~~

Lease Road

Not To Scale

Exhibit #6

COG OPERATING LLC
Rig Layout-Closed Loop
System

N
↓

No New Road

