

DATE IN <u>3-9-10</u>	SUSPENSE	ENGINEER <u>DB</u>	LOGGED IN <u>3-9-10</u>	TYPE <u>NSL</u>	APP NO. <u>1006857667</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



COG
(229137)

Willow State #12

ADMINISTRATIVE APPLICATION CHECKLIST

30-015-37624

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

6174

E d g

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

INTEREST ARE THE SAME

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

ROBYN M. ODOM
Print or Type Name

Robyn Odom
Signature

REGULATORY ANALYST
Title

3/8/10
Date

(432) 685-4385
Phone Number

rododm@conchoresources.com
E-mail Address

**Willow State #12
Eddy County, NM**

Fren; Glorieta-Yeso oil well
TD of approximately 6700'

Non-Standard Location:
1630' FSL & 330' FEL Sec 16, T17S, R31E, Unit I

This well had to be drilled at a non-standard location due to pipelines.

The plan for this well is to complete it in the Yeso formation.
We won't know the exact perms until we drill & log it, but it will be similar to the

Willow State #8
330 FSL & 1650 FEL, Section 16, T17S, R31E, UL O
completed in March 2006

The Willow State #8 completion broke the Yeso up into 3 Yeso perf/stimulation intervals. Willow State #8 has perms from: 4901.5' – 5845.5' with acid and frac stimulations.

1st interval: 4901.5' - 5152.5'
acidized w/ 3500 gals,
frac w/ 96,348 gals gel, 8000# LiteProp, & 92,240# 16/30 sand.

2nd interval: 5380.5' – 5544'
acidized w/ 2550 gals,
frac w/ 83,000 gals gel, 8006# LiteProp, & 91,740# 16/30 white sand.

3rd interval: 5650' – 5845.5'
acidized w/ 2265 gals
frac w/ 84,663 gals gel, 8000# LiteProp, & 90,560# 16/30 white sand.

**Attachment 1
Plat and Map**

**Attachment 2
Map & legend of offset wells.**

Attachment 3
Updated land plat showing that COG owns the offset acreage.
The acreage we are encroaching on is the SE/4 SE/4 of Section 16 and the
SW/4 SW/4 of Section 15.
Proof of notification to the offset operator attached.

Interests are the same.

COG Operating LLC respectfully requests permission to have this NSL approved.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410

11630 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT IV
11630 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37624	Pool Code 26770	Pool Name FREN; GLORIETA-YESO
Property Code 302587	Property Name WILLOW STATE	Well Number 12
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3859'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	16	17-S	31-E		1630	SOUTH	330	EAST	EDDY

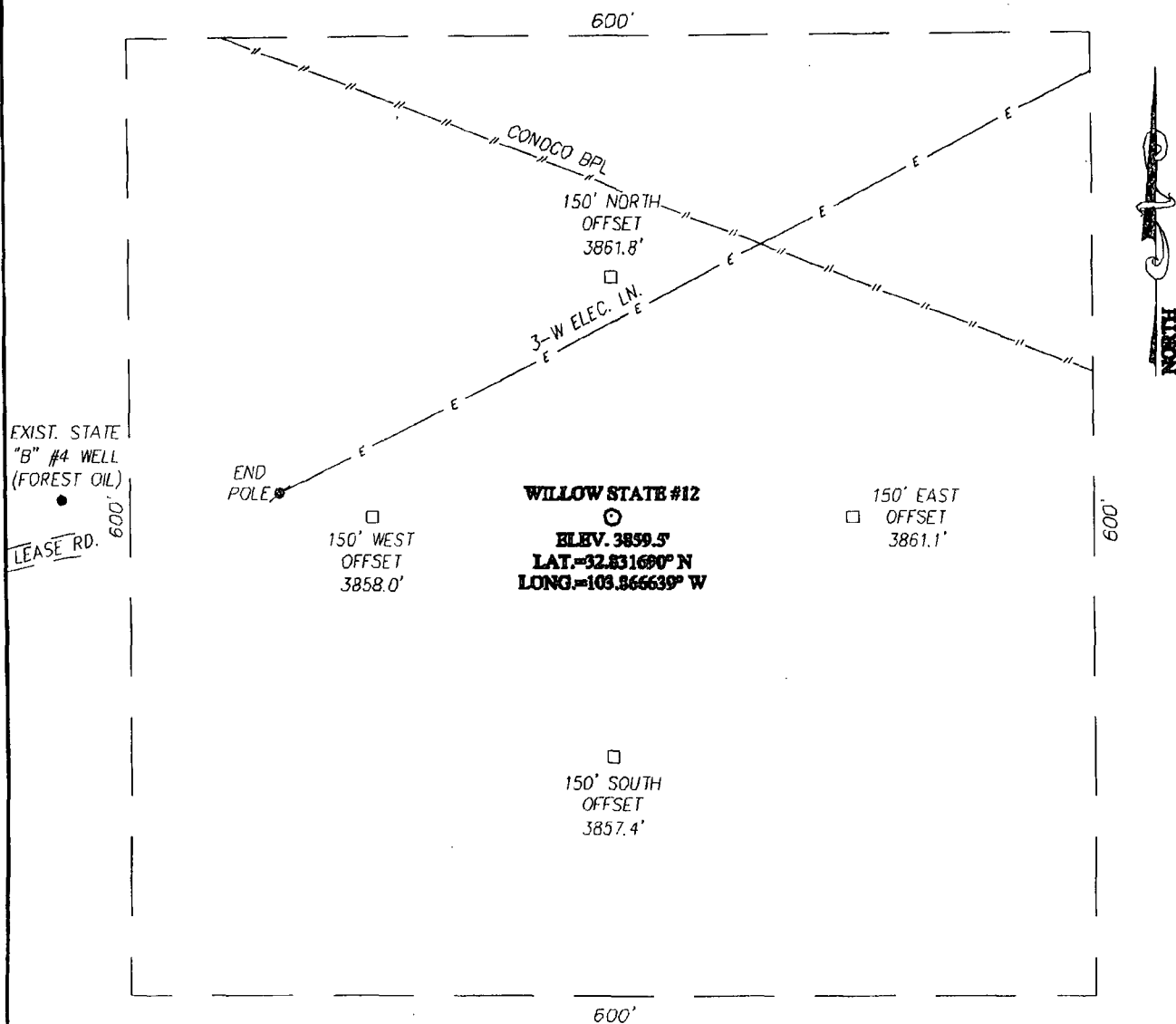
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

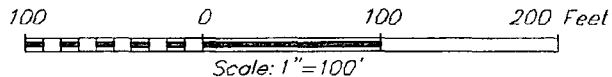
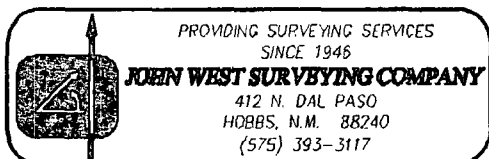
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=666596.5 N X=643352.3 E LAT.=32.831690° N LONG.=103.866639° W S.L. 330' 1630'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 2/8/2010 Signature Date Robyn Odom Printed Name SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <i>[Signature]</i> 2/4/10 Date Surveyed Signature & Seal of Professional Surveyor GARY G. EIDSON 09MAY293 Certificate No. GARY G. EIDSON 12641 RONALD J. EIDSON 3239
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SECTION 16, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #223 (SWEET GUM RD.), GO NORTH ON CO. RD. #223 APPROX. 1.3 MILES. TURN RIGHT AND GO EAST APPROX. 0.4 MILES TO THE FOREST OIL STATE "B" #4 WELL SITE. THIS LOCATION STAKE IS APPROX. 335 FEET EAST OF EXISTING STATE "B" #4 WELL.



COG OPERATING, LLC

WILLOW STATE #12 WELL
 LOCATED 1630 FEET FROM THE SOUTH LINE
 AND 330 FEET FROM THE EAST LINE OF SECTION 16,
 TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO

Survey Date: 02/01/10	Sheet 1 of 1 Sheets
W.O. Number: 09.11.1293	Dr By: DSS
Date: 02/03/10	09111293
	Scale: 1"=100'

Offset Wells to Willow State #12

API#	Operator	Lease	Well#	County	Legal	Field Name	Reservoir Name	Total Depth	Well Type	Well Status	First Prod.	Last Prod.
30-015-05163	WISER OIL CO (THE)	STATE AZ	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,547	O	Pumping	Jan 1959	Dec 1977
30-015-05163	FOREST OIL CORPORATION	STATE AZ		EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,547	O	Pumping	Jan 1947	Nov 2009
30-015-05165	KERSEY & COMPANY	MACY	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Jan 1954	Sep 2009
30-015-05167	KERSEY & COMPANY	MACY	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Jan 1951	Sep 2009
30-015-05168	WISER OIL CO (THE)	STATE A	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,630	O	Active	Jan 1967	Dec 1977
30-015-05168	FOREST OIL CORPORATION	STATE A	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,630	O	Active	Jan 1947	Nov 2009
30-015-05169	FOREST OIL CORPORATION	STATE A	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,585	O	Active	Jan 1947	Nov 2009
30-015-05169	WISER OIL CO (THE)	STATE A	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,585	O	Active	Jan 1967	Dec 1977
30-015-05170	WISER OIL CO (THE)	STATE B	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,680	O	Pumping	Jan 1967	Dec 1977
30-015-05170	FOREST OIL CORPORATION	STATE B	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,680	O	Pumping	Jan 1947	Nov 2009
30-015-05171	FOREST OIL CORPORATION	STATE B	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Temporarily Abandoned	Jan 1947	Nov 2009
30-015-05171	WISER OIL CO (THE)	STATE B	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Temporarily Abandoned	Jan 1954	Dec 1977
30-015-05172	WISER OIL CO (THE)	STATE B	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Shut-in	Jan 1947	Dec 2002
30-015-05172	WISER OIL CO (THE)	STATE B	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Shut-in	Jan 1954	Dec 1977
30-015-05173	FOREST OIL CORPORATION	STATE B	004	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,782	O	Shut-in	Apr 1961	Nov 2009
30-015-05173	WISER OIL CO (THE)	STATE B	004	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,782	O	Shut-in	Jan 1967	Dec 1977
30-015-05175	FOREST OIL CORPORATION	STATE AZ	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping	Jan 1954	Nov 2009
30-015-05177	KERSEY & COMPANY	STATE W/K	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Pumping	Jan 1954	Dec 1977

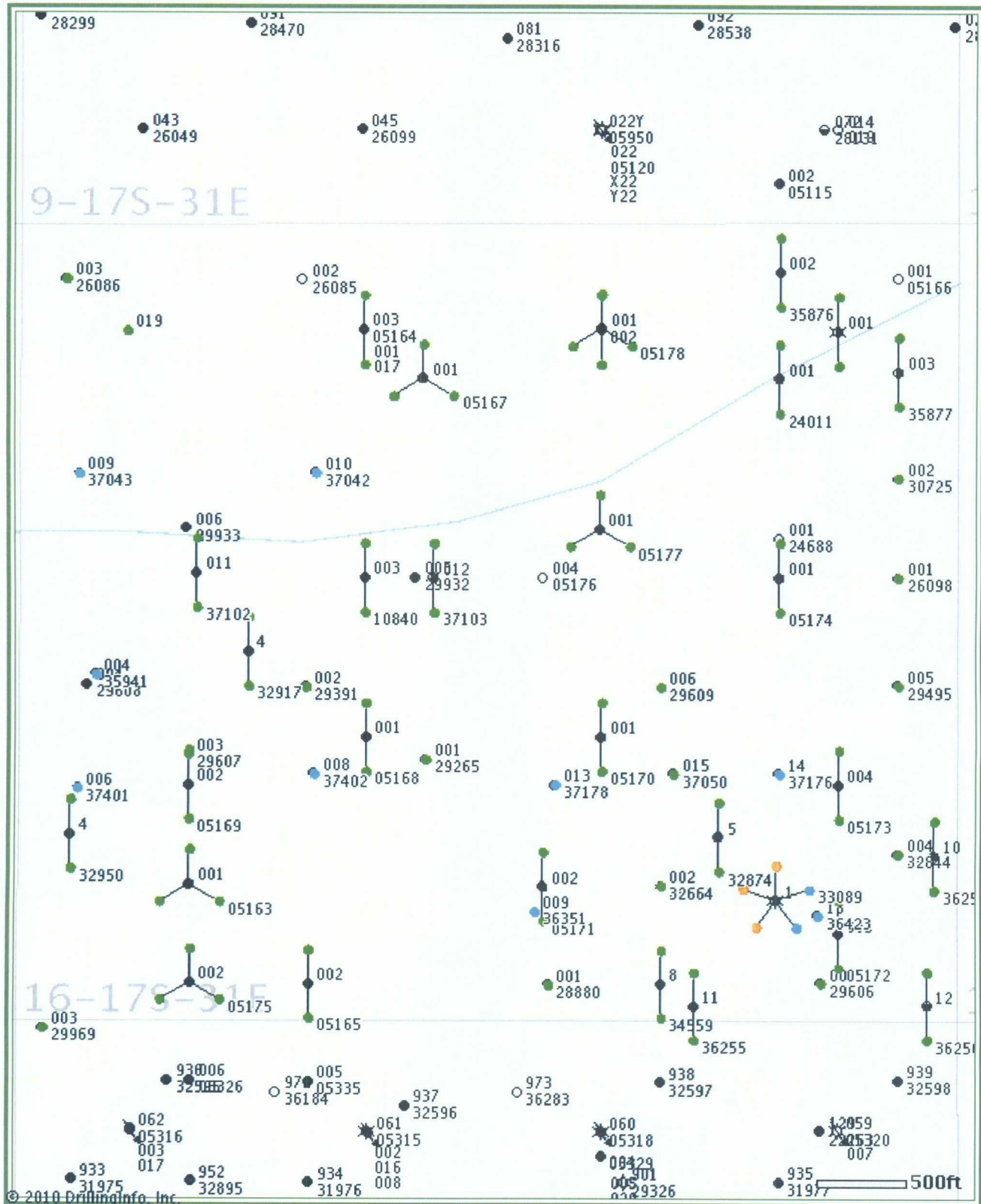
30-015-05177	KERSEY & COMPANY	STATE W K	001	EDDY	T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping	Jan 1950	Mar 2009
30-015-05178	TRITEX RESOURCES, L.L.C.	KERSEY STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,780	O	Pumping	Jan 1949	Nov 2009
30-015-05178	RAY WESTALL	KERSEY STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,780	O	Pumping	Jan 1972	Apr 1974
30-015-10840	WISER OIL CO (THE)	STATE A	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Active	Jan 1967	Dec 1977
30-015-10840	FOREST OIL CORPORATION	STATE A	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Jan 1969	Nov 2009
30-015-24011	COG OPERATING LLC	CHOCTAW STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,600	O	Active	Apr 1982	Nov 2009
30-015-26086	TRITEX RESOURCES, L.L.C.	KERSEY STATE	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,667	PO	Pumping	May 1989	Nov 2009
30-015-26098	MARBOB ENERGY CORP	FORAN STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,832	O	Pumping	Mar 1950	Feb 2000
30-015-28880	COG OPERATING LLC	WILLOW STATE	001	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	8,990	O	Pumping	Jun 1996	Nov 2009
30-015-29265	COG OPERATING LLC	YUCCA STATE	001	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,435	O	Pumping	Jan 1954	Nov 2009
30-015-29391	COG OPERATING LLC	YUCCA STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,502	O	Pumping	Nov 1997	Nov 2009
30-015-29495	COG OPERATING LLC	WILLOW STATE	005	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	8,700	O	Pumping	Jun 1997	Nov 2009
30-015-29606	COG OPERATING LLC	WILLOW STATE	003	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,507	O	Pumping	Oct 1997	Nov 2009
30-015-29607	COG OPERATING LLC	YUCCA STATE	003	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,518	O	Pumping	Aug 1997	Nov 2009
30-015-29609	COG OPERATING LLC	WILLOW STATE	006	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,460	O	Pumping	Nov 1997	Nov 2009
30-015-29969	FOREST OIL CORPORATION	STATE AZ	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,759	O	Pumping	May 1998	Jul 2009
30-015-30725	MARBOB ENERGY CORP	FORAN STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,530	O	Pumping	Oct 1999	Nov 2009
30-015-32664	COG OPERATING LLC	WILLOW STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	6,505	O	Active	May 2003	Nov 2009
30-015-32844	COG OPERATING LLC	WILLOW STATE	004	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,405	O	Active	Jul 2003	Nov 2009
30-015-00000		SHELL	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	SR-Q-G-SA		G	Active	Jan 1967	Dec 1967

30-015-00000		SHELL	001	EDDY	T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA		G	Active	Mar 1961	Jan 1969
30-015-05178		STATE W K	001	EDDY	S:16, T:17S, R:31E	FREN	SEVEN RIVERS	3,780	O	Pumping		
30-015-05174		MOBIL STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,739	O	Active	Jan 1961	Feb 1979
30-015-33089	MARBOB ENERGY CORP		1	EDDY	S:16, T:17S, R:31E	FREN	CISCO-CANYON (O)	12,200	G	Active		
30-015-33089	OXY USA WTP LIMITED PARTNERSHIP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	FREN	MORROW	12,200	G	Active		
30-015-33089	MARBOB ENERGY CORP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	FREN; CISCO-CANYON		12,200	G	Active		
30-015-32874	FOREST OIL CORPORATION	STATE B	5	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,900	O	Active	May 2004	Nov 2009
30-015-32950	FOREST OIL CORPORATION	STATE AZ	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,800	O	Active	May 2004	Nov 2009
30-015-32917	FOREST OIL CORPORATION	STATE A	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	4,000	O	Active	May 2004	Nov 2009
30-015-05165	KERSEY ET AL PACIFIC WESTERN OIL CORP.	MACY	002	EDDY	S:16, T:17S, R:31E	FREN		0	O	Active	Apr 1949	Dec 1971
30-015-05175		STATE E	002	EDDY	S:16, T:17S, R:31E	FREN	MORROW	0	O	Pumping	Aug 1949	Dec 1965
30-015-05167	KERSEY & CO.	STATE B	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Feb 1947	Dec 1965
30-015-00000	RANDEL O.H.	STATE B	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA		O	Active	Jan 1947	Dec 1957
30-015-00000	KERSEY AND CO	W K STATE	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA		O	Active	Jan 1958	Dec 1971
30-015-00000	randel, o. h.	State B	001	EDDY	S:16, T:17S, R:31E	grayburg jackson pool			O	Active	Jan 1951	Dec 1953
30-015-00000	KERSEY & CO.	STATE	017	EDDY	S:16, T:17S, R:31E	GRAYBURG-JACKSON POOL			O	Active	Oct 1952	Dec 1956
30-015-24011	MURCHINSON & CLOSUIT	STATE C	001	EDDY	S:16, T:17S, R:31E	GRAYBURG-JACKSON POOL		3,600	O	Active	Mar 1949	Nov 1949
30-015-00000	KERSEY & COMPANY	STATE B	019	EDDY	S:16, T:17S, R:31E	GRAYBURG-JACKSON POOL			O	Active	Jan 1956	Dec 1956
30-015-05174	MURCHISON & CLOSUIT	STATE C	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON OIL		3,739	O	Active	Mar 1947	Aug 1948
30-015-05177	RANDEL, O.H.	STATE B	001	EDDY	S:16, T:17S, R:31E	GRYBURG JACKSON		0	O	Pumping	Jan 1947	Dec 1957
	GEN AMERICAN				S:16,							

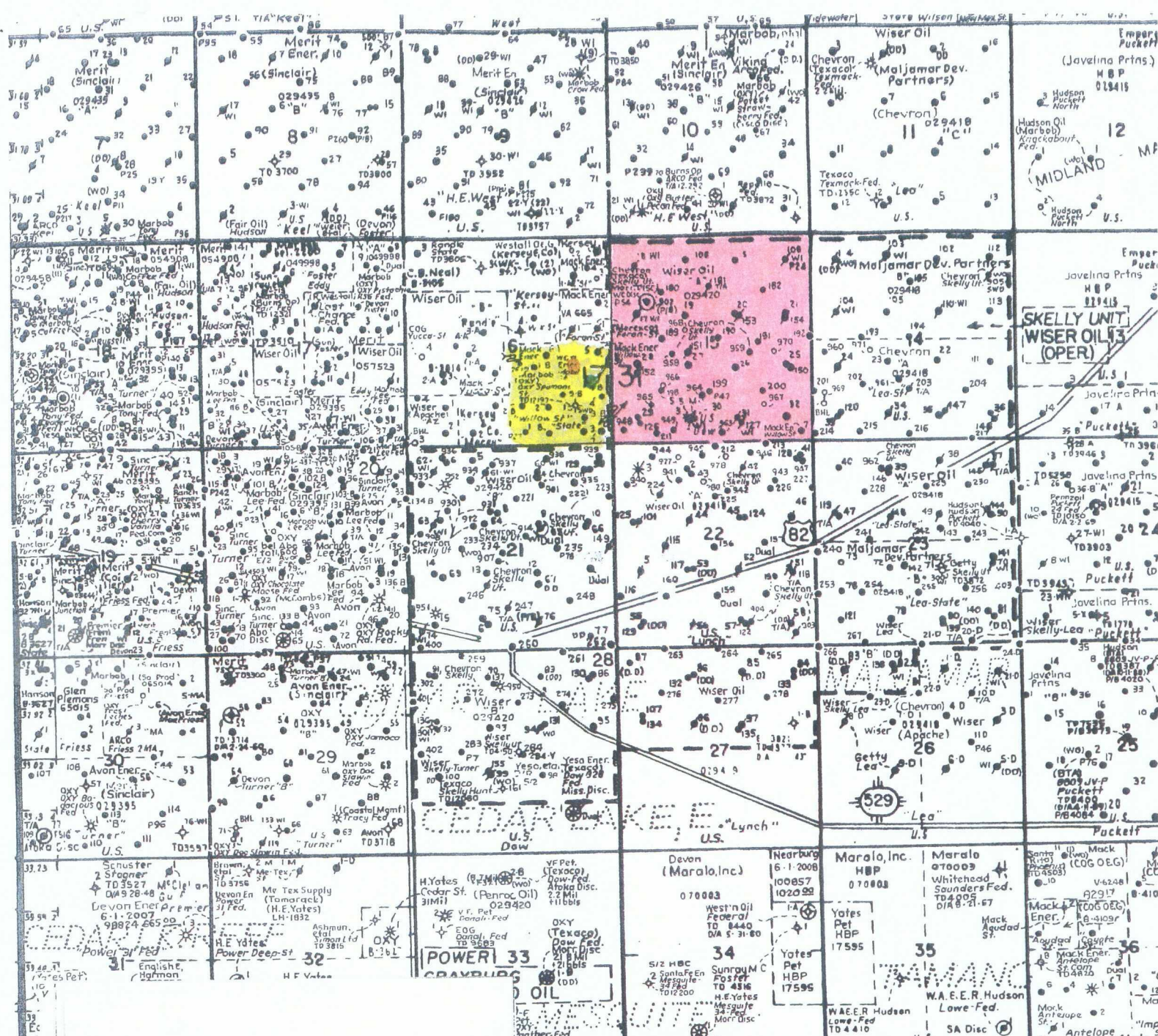
30-015-05163	OIL CO OF TEXAS	STATE E	001	EDDY	T:17S, R:31E	GRAYBURG JACKSON QUEEN S A			3,547	O	Pumping		Jan 1948	Dec 1965
30-015-05167	KERSEY & COMPANY	MACY TALMADGE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	0	O	Active		Jan 1957	Dec 1957
30-015-05175	GETTY OIL COMPANY	STATE AZ	002	EDDY	S:16, T:17S, R:31E	FREN 7 RIVRS			0	O	Pumping		Jan 1971	Dec 1971
30-015-34559	COG OPERATING LLC	WILLOW STATE	8	EDDY	S:16, T:17S, R:31E	FREN		PADDOCK	6,310	O	Active Permit		Mar 2006	Nov 2009
30-015-33089	OXY USA LIMITED PARTNERSHIP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	UNDSG FREN MORROW			12,200	G	Active			
30-015-35877	COG OPERATING LLC	CHOCTAW STATE	003	EDDY	S:16, T:17S, R:31E	FREN		PADDOCK	6,625	O	Active Permit		Apr 2008	Nov 2009
30-015-35876	COG OPERATING LLC	CHOCTAW STATE	002	EDDY	S:16, T:17S, R:31E	FREN		PADDOCK	6,610	O	Active Permit		Dec 2007	Nov 2009
30-015-33089	MARBOB ENERGY CORP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	SWD		UPPER PENN	12,200	G	Active		Jan 2005	Nov 2009
30-015-35941	COG OPERATING LLC	YUCCA STATE	004	EDDY	S:16, T:17S, R:31E	FREN		PADDOCK	6,400	PO	Active Permit			
30-015-34559	COG OPERATING LLC	WILLOW STATE	8	EDDY	S:16, T:17S, R:31E	FREN; PADDOCK			6,310	O	Active Permit			
30-015-35876	COG OPERATING LLC	CHOCTAW STATE	002	EDDY	S:16, T:17S, R:31E	FERN; GLORIETA-YESO 26770			6,610	O	Active Permit			
30-015-36254	FOREST OIL CORPORATION	FOC B STATE	10	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	4,075	O	Active Permit		Sep 2008	Nov 2009
30-015-36255	FOREST OIL CORPORATION	FOC B STATE	11	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	4,040	O	Active Permit		Aug 2008	Nov 2009
30-015-36256	FOREST OIL CORPORATION	FOC B STATE	12	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	4,030	O	Active Permit		Aug 2008	Jul 2009
30-015-35877	COG OPERATING LLC	CHOCTAW STATE	003	EDDY	S:16, T:17S, R:31E	FERN; GLORIETA-YESO			6,625	O	Active Permit			
30-015-36423	FOREST OIL CORPORATION	STATE B	13	EDDY	S:16, T:17S, R:31E	GRAYBURG (JACKSON; SR-Q-G-SA)		JACKSON; SR-Q-G-SA	4,100	PI	Active Permit			
30-015-36351	COG OPERATING LLC	WILLOW STATE	009	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)		PADDOCK		PO	Active Permit			
30-015-36255	FOREST OIL CORPORATION	FOC B STATE	11	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON; SR-Q-G-SA			4,040	O	Active Permit			
30-015-36254	FOREST OIL CORPORATION	FOC B STATE	10	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON; SR-Q-G SA			4,075	O	Active Permit			
30-015-36256	FOREST OIL CORPORATION	FOC B STATE	12	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON; SR-Q-G-SA			4,030	O	Active Permit			

30-015-37043	COG OPERATING LLC	YUCCA STATE	009	EDDY	T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	PO	Active Permit		
30-015-37042	COG OPERATING LLC	YUCCA STATE	010	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	PO	Active Permit		
30-015-37050	COG OPERATING LLC	WILLOW STATE	015	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	PO	Active Permit	Sep 2009	Nov 2009
30-015-37102	COG OPERATING LLC	YUCCA STATE	011	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,615	O	Active Permit	Nov 2009	Nov 2009
30-015-37103	COG OPERATING LLC	YUCCA STATE	012	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	O	Active Permit	Sep 2009	Nov 2009
30-015-37178	COG OPERATING LLC	WILLOW STATE	013	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,800	PO	Active Permit		
30-015-37176	COG OPERATING LLC	WILLOW STATE	14	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,800	PO	Active Permit		
30-015-32874	THE WISER OIL COMPANY	STATE "B"	5	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON;SR-Q-G-SA		3,900	O	Active		
30-015-37103	COG OPERATING LLC	YUCCA STATE	012	EDDY	S:16, T:17S, R:31E	FREN; GLORIETA-YESO		6,600	O	Active Permit		
30-015-37401	COG OPERATING LLC	YUCCA STATE	006	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,900	PO	Active Permit		
30-015-37402	COG OPERATING LLC	YUCCA STATE	008	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,900	PO	Active Permit		
30-015-32917	THE WISER OIL COMPANY	STATE "A"	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON;SR-Q-G-SA		4,000	O	Active		
30-015-32950	THE WISER OIL COMPANY	STATE "AZ"	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON;SR-Q-G-SA		3,800	O	Active		
30-015-37102	COG OPERATING LLC	YUCCA STATE	011	EDDY	S:16, T:17S, R:31E	FREN; GLORIETA-YESO		6,615	O	Active Permit		

Offset Wells to Willow State #12

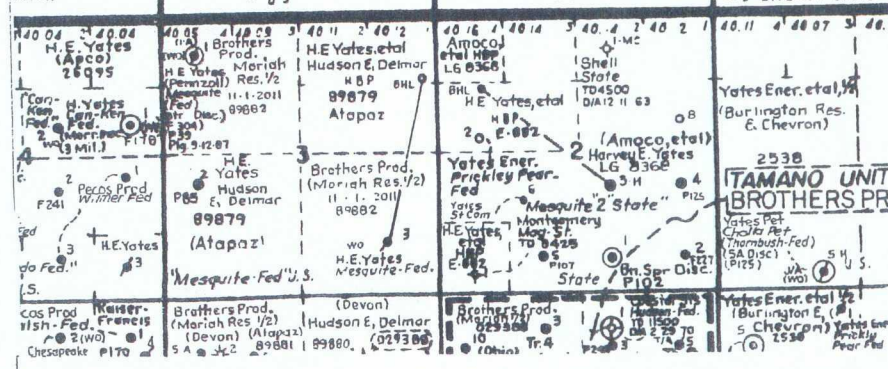


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Willow State

- State Lease # B0-2613
- Federal Lease # NMLC-029420A
COG OPERATING 100%



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
☒ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature <u>[Signature]</u> ☐ Agent ☐ Addressee	
1. Article Addressed to: SANDRIDGE EXPLORATION AND PRODUCTION, LLC 123 ROBERT S. KERR AVE. OKLAHOMA CITY, OK 73102-6406		B. Received by (Printed Name) <u>S. R. C. R.</u> ☒ Yes ☐ No	
		C. Date of Delivery <u>3-4</u>	
		D. Is delivery address different from item 1? ☐ Yes ☒ No	
		If YES, enter delivery address below:	
		3. Service Type ☐ Express Mail ☐ Certified Mail ☐ Return Receipt for Merchandise ☐ Registered ☐ C.O.D. ☐ Insured Mail ☐ Yes ☐ No	
		4. Restricted Delivery? (Extra Fee) ☐ Yes ☐ No	
2. Article Number (transfer from service label)		7009 2250 0001 0942 4223	
PS Form 3811, February 2004		Domestic Return Receipt	

102595-02-M-1540

**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

February 26, 2010

Sandridge Exploration and Production, LLC
123 Robert S. Kerr Ave.
Oklahoma City, OK 73102-6406

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Maljamar; Yeso, West oil well.

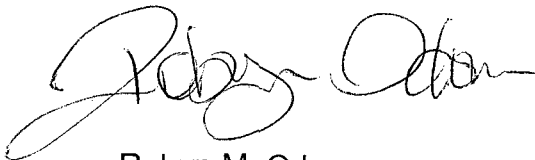
**WILLOW STATE #12
Eddy County, NM**

1630' FSL & 330' FEL Sec 16, T17S, R31E

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may allow COG to produce from the unorthodox location after the well is drilled, if no objection has been made within the 20 days after the application has been received.

Sincerely,

COG Operating LLC

A handwritten signature in black ink, appearing to read "Robyn M. Odom", written in a cursive style.

Robyn M. Odom
Regulatory Analyst

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Thursday, March 11, 2010 2:29 PM
To: 'Robyn Odom'
Subject: Willow State #12; NSL Application

Dear Ms. Odom

As you have indicate this proposed location encroaches toward the SW/4 SW/4 (Unit M) of Section 15. Our database indicates that Chevron USA, Inc. is operator of two wells completed in the Fren Glorieta Yeso Pool in Unit M of Section 15: The Skelly Unit ## 948 and 965.

You do not, however, indicate that you have given notice to Chevron USA, Inc., although you apparently have notified Sandridge Exploration, whose wells are completed in a different pool.

Please explain.

Thanks

David K. Brooks

Brooks, David K., EMNRD

From: Robyn Odom [rodom@conchoresources.com]
Sent: Monday, March 15, 2010 10:39 AM
To: Brooks, David K., EMNRD
Subject: RE: Leaker CC State #22; NSL Application

Dear Mr. Brooks,

I am mailing notification of the NSL to Chevron today for the subject well and will send proof of notification to you as soon as I receive it.

Thank you for all your help,

Robyn Odom
(432) 685-4385

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From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Friday, March 12, 2010 10:59 AM
To: Robyn Odom
Subject: Leaker CC State #22; NSL Application

Dear Ms. Odom

In this application, it seems you have correctly identified the affected units as Unit A in Section 16 and Unit M in Section 9. Our database shows COG as operator of several wells in Unit A16, and Sandridge as operator of a well in Unit M9. You have duly notified Sandridge. Is COG's working interest ownership in Unit A of Section 16 100%?

Sincerely

David

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Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Monday, March 15, 2010 2:04 PM
To: 'Robyn Odom'
Subject: RE: Leaker CC State #22; NSL Application

Dear Ms. Odom

I am a little confused. On March 12 I wrote to you with reference to the Leaker CC State #22 inquiring about the working interest ownership in Unit A of Section 16. You replied on March 12 that COG owns 100% of that spacing unit.

Later on March 12, I wrote to you concerning the Willow State #12 observing that our records show that Chevron USA is the operator of Unit M of Section 15 which offsets your proposed Willow State #12 to the southeast. It was for the Willow State #12 rather than the CC State #22 that I suggested that notice to Chevron might be required.

Please advise if your email below concerning notice to Chevron correctly references the CC State #22, or if it is instead intended to refer to the Will State #12.

Thanks
David K. Brooks
Legal Examiner

From: Robyn Odom [mailto:rododm@conchoresources.com]
Sent: Monday, March 15, 2010 10:39 AM
To: Brooks, David K., EMNRD
Subject: RE: Leaker CC State #22; NSL Application

Dear Mr. Brooks,

I am mailing notification of the NSL to Chevron today for the subject well and will send proof of notification to you as soon as I receive it.

Thank you for all your help,

Robyn Odom
(432) 685-4385

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From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Friday, March 12, 2010 10:59 AM
To: Robyn Odom
Subject: Leaker CC State #22; NSL Application

Dear Ms. Odom

In this application, it seems you have correctly identified the affected units as Unit A in Section 16 and Unit M in Section 9. Our database shows COG as operator of several wells in Unit A16, and Sandridge as operator of a well in Unit M9. You have duly notified Sandridge. Is COG's working interest ownership in Unit A of Section 16 100%?

Sincerely

David

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

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This email has been scanned using Webroot Email Security.

Brooks, David K., EMNRD

From: Robyn Odom [rodom@conchoresources.com]
Sent: Monday, March 15, 2010 2:36 PM
To: Brooks, David K., EMNRD
Subject: RE: Leaker CC State #22; NSL Application

Dear Mr. Brooks,

It has been a total Monday for me already. I'm sorry. I thought it was the Leaker CC State #22 that you had e-mailed me about Chevron operating two wells. You are right, it is the Willow State #12 that is non-standard to two Chevron wells and I have mailed an NSL notice to them today. I will send proof of notification to you as soon as I receive it. Sorry again for the confusion! Have a great day!

Thank you,

Robyn Odom
(432) 685-4385

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From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Monday, March 15, 2010 3:04 PM
To: Robyn Odom
Subject: RE: Leaker CC State #22; NSL Application

Dear Ms. Odom

I am a little confused. On March 12 I wrote to you with reference to the Leaker CC State #22 inquiring about the working interest ownership in Unit A of Section 16. You replied on March 12 that COG owns 100% of that spacing unit.

Later on March 12, I wrote to you concerning the Willow State #12 observing that our records show that Chevron USA is the operator of Unit M of Section 15 which offsets your proposed Willow State #12 to the southeast. It was for the Willow State #12 rather than the CC State #22 that I suggested that notice to Chevron might be required.

Please advise if your email below concerning notice to Chevron correctly references the CC State #22, or if it is instead intended to refer to the Will State #12.

Thanks
David K. Brooks
Legal Examiner

From: Robyn Odom [mailto:rodom@conchoresources.com]
Sent: Monday, March 15, 2010 10:39 AM

To: Brooks, David K., EMNRD
Subject: RE: Leaker CC State #22; NSL Application

Dear Mr. Brooks,

I am mailing notification of the NSL to Chevron today for the subject well and will send proof of notification to you as soon as I receive it.

Thank you for all your help,

Robyn Odom
(432) 685-4385

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From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Friday, March 12, 2010 10:59 AM
To: Robyn Odom
Subject: Leaker CC State #22; NSL Application

Dear Ms. Odom

In this application, it seems you have correctly identified the affected units as Unit A in Section 16 and Unit M in Section 9. Our database shows COG as operator of several wells in Unit A16, and Sandridge as operator of a well in Unit M9. You have duly notified Sandridge. Is COG's working interest ownership in Unit A of Section 16 100%?

Sincerely

David

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This email has been scanned using Webroot Email Security.

**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

RECEIVED OCD

2010 APR -1 A 11: 10

March 15, 2010

Chevron USA
P.O. Box 1635
Houston, TX 77251

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox ~~Maljamar, Yeso, West~~ oil well.

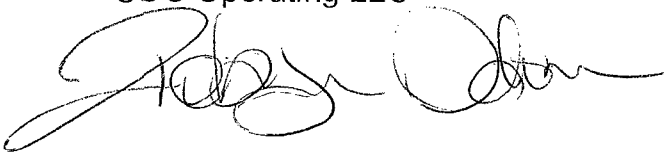
**WILLOW STATE #12
Eddy County, NM**

1630' FSL & 330' FEL Sec 16, T17S, R31E

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may allow COG to produce from the unorthodox location after the well is drilled, if no objection has been made within the 20 days after the application has been received.

Sincerely,

COG Operating LLC



Robyn M. Odom
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

- ☒ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- ☒ Print your name and address on the reverse so that we can return the card to you.
- ☒ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHEVRON USA
P.O. BOX 1635
HOUSTON, TX 77251

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

B. Received by (Printed Name) ☐ Agent ☐ Addressee

Wen

C. Date of Delivery

19 MAR 19 2000

D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type

- ☒ Certified Mail
- ☐ Registered
- ☐ Insured Mail
- ☐ Express Mail
- ☒ Return Receipt for Merchandise
- ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

7009 2250 0001 0942 4322

Domestic Return Receipt

102585-02-M-1540

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

INTEREST ARE THE SAME

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

ROBYN M. ODOM
Print or Type Name

Robyn Odom
Signature

REGULATORY ANALYST
Title

3/8/10
Date

(432) 685-4385
Phone Number

rododm@conchoresources.com
E-mail Address

**Willow State #12
Eddy County, NM**

Fren; Glorieta-Yeso oil well
TD of approximately 6700'

Non-Standard Location:
1630' FSL & 330' FEL Sec 16, T17S, R31E, Unit I

This well had to be drilled at a non-standard location due to pipelines.

The plan for this well is to complete it in the Yeso formation.
We won't know the exact perms until we drill & log it, but it will be similar to the

Willow State #8
330 FSL & 1650 FEL, Section 16, T17S, R31E, UL O
completed in March 2006

The Willow State #8 completion broke the Yeso up into 3 Yeso perf/stimulation intervals. Willow State #8 has perms from: 4901.5' – 5845.5' with acid and frac stimulations.

1st interval: 4901.5' - 5152.5'
acidized w/ 3500 gals,
frac w/ 96,348 gals gel, 8000# LiteProp, & 92,240# 16/30 sand.

2nd interval: 5380.5' – 5544'
acidized w/ 2550 gals,
frac w/ 83,000 gals gel, 8006# LiteProp, & 91,740# 16/30 white sand.

3rd interval: 5650' – 5845.5'
acidized w/ 2265 gals
frac w/ 84,663 gals gel, 8000# LiteProp, & 90,560# 16/30 white sand.

Attachment 1

Plat and Map

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing that COG owns the offset acreage.
The acreage we are encroaching on is the SE/4 SE/4 of Section 16 and the
SW/4 SW/4 of Section 15.

Proof of notification to the offset operator attached.

Interests are the same.

COG Operating LLC respectfully requests permission to have this NSL approved.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410

DISTRICT IV
11630 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
11630 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37624	Pool Code 26770	Pool Name FREN; GLORIETA-YESO
Property Code 302587	Property Name WILLOW STATE	Well Number 12
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3859'

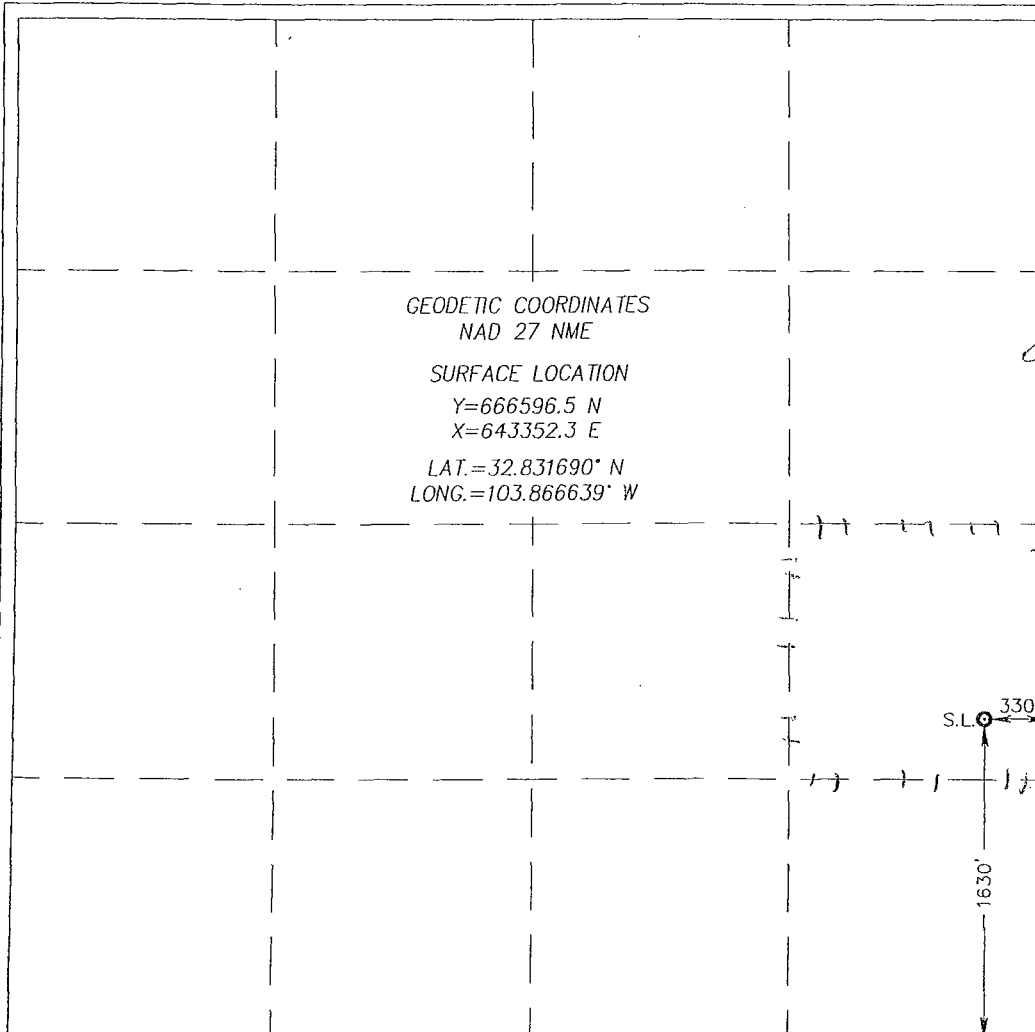
Surface Location

UL or lot No. 1	Section 16	Township 17-S	Range 31-E	Lot Idn	Feet from the 1630	North/South line SOUTH	Feet from the 330	East/West line EAST	County EDDY
--------------------	---------------	------------------	---------------	---------	-----------------------	---------------------------	----------------------	------------------------	----------------

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Robyn Odom* Date: 2/8/2010
Printed Name: Robyn Odom

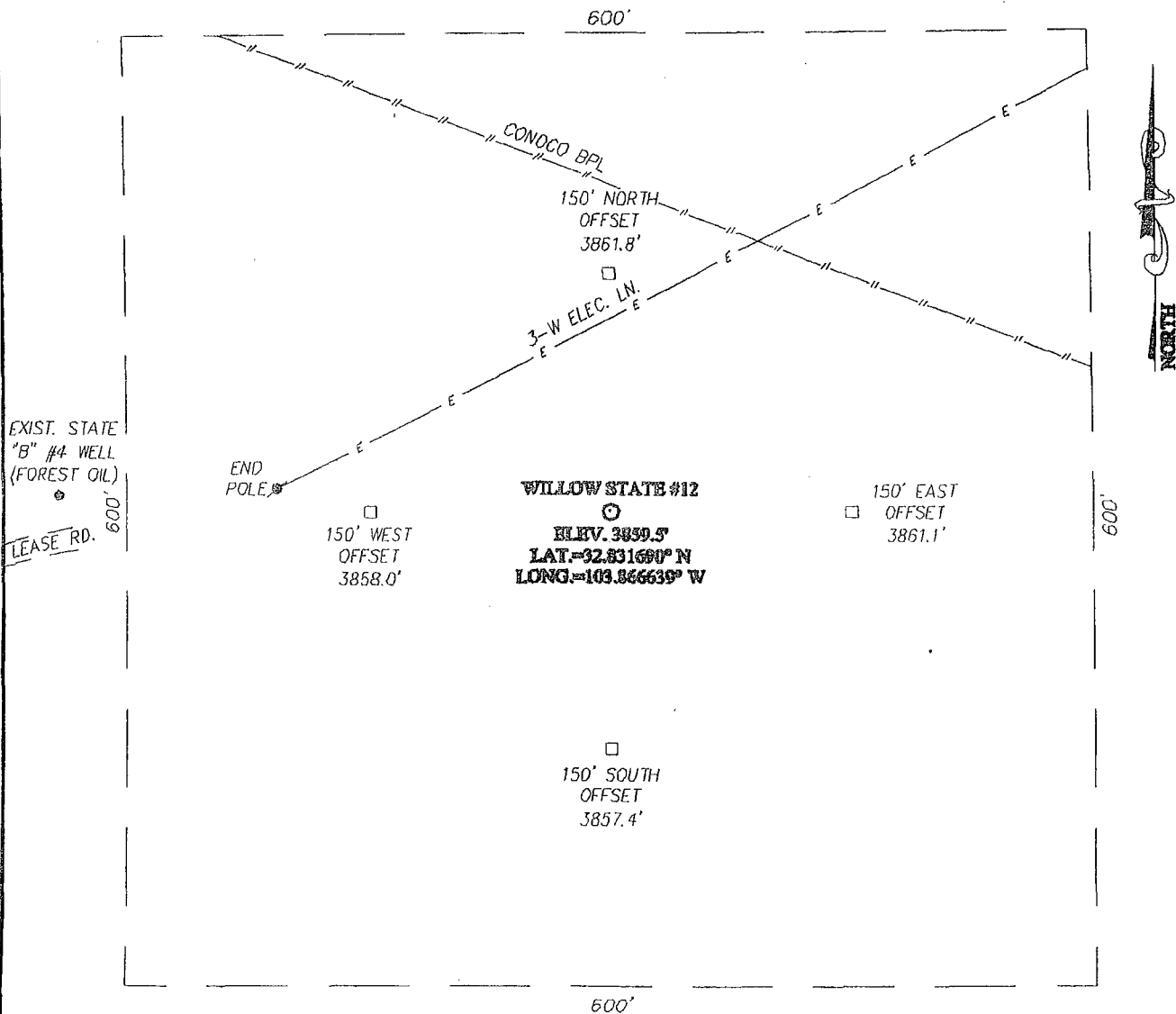
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed: 2/4/10
Signature & Seal of Professional Surveyor: *Gary G. Eidson*
Certificate No. 09166293

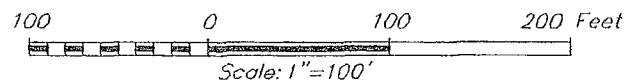
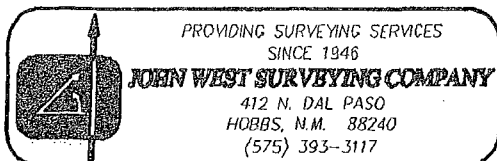
Certificate No. GARY G. EIDSON 12641
RONALD J. EIDSON 3239

SECTION 16, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #223 (SWEET GUM RD.), GO NORTH ON CO. RD. #223 APPROX. 1.3 MILES. TURN RIGHT AND GO EAST APPROX. 0.4 MILES TO THE FOREST OIL STATE "B" #4 WELL SITE. THIS LOCATION STAKE IS APPROX. 335 FEET EAST OF EXISTING STATE "B" #4 WELL.



COG OPERATING, LLC

WILLOW STATE #12 WELL
 LOCATED 1630 FEET FROM THE SOUTH LINE
 AND 330 FEET FROM THE EAST LINE OF SECTION 16,
 TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO

Survey Date: 02/01/10	Sheet 1 of 1 Sheets
W.O. Number: 09.11.1293	Dr By: DSS
Date: 02/03/10	09111293
	Scale: 1"=100'

Offset Wells to Willow State #12

API#	Operator	Lease	Well#	County	Legal	Field Name	Reservoir Name	Total Depth	Well Type	Well Status	First Prod.	Last Prod.
30-015-05163	WISER OIL CO (THE)	STATE AZ	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,547	O	Pumping	Jan 1959	Dec 1977
30-015-05163	FOREST OIL CORPORATION	STATE AZ	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,547	O	Pumping	Jan 1947	Nov 2009
30-015-05165	KERSEY & COMPANY	MACY	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Jan 1954	Sep 2009
30-015-05167	KERSEY & COMPANY	MACY	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Jan 1951	Sep 2009
30-015-05168	WISER OIL CO (THE)	STATE A	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,630	O	Active	Jan 1967	Dec 1977
30-015-05168	FOREST OIL CORPORATION	STATE A	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,630	O	Active	Jan 1947	Nov 2009
30-015-05169	FOREST OIL CORPORATION	STATE A	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,585	O	Active	Jan 1947	Nov 2009
30-015-05169	WISER OIL CO (THE)	STATE A	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,585	O	Active	Jan 1967	Dec 1977
30-015-05170	WISER OIL CO (THE)	STATE B	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,680	O	Pumping	Jan 1967	Dec 1977
30-015-05170	FOREST OIL CORPORATION	STATE B	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,680	O	Pumping	Jan 1947	Nov 2009
30-015-05171	FOREST OIL CORPORATION	STATE B	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Temporarily Abandoned	Jan 1947	Nov 2009
30-015-05171	WISER OIL CO (THE)	STATE B	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Temporarily Abandoned	Jan 1954	Dec 1977
30-015-05172	WISER OIL CO (THE)	STATE B	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Shut-in	Jan 1947	Dec 2002
30-015-05172	WISER OIL CO (THE)	STATE B	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Shut-in	Jan 1954	Dec 1977
30-015-05173	FOREST OIL CORPORATION	STATE B	004	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,782	O	Shut-in	Apr 1961	Nov 2009
30-015-05173	WISER OIL CO (THE)	STATE B	004	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,782	O	Shut-in	Jan 1967	Dec 1977
30-015-05175	FOREST OIL CORPORATION	STATE AZ	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping	Jan 1954	Nov 2009
30-015-05177	KERSEY & COMPANY	STATE W K	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Pumping	Jan 1954	Dec 1977

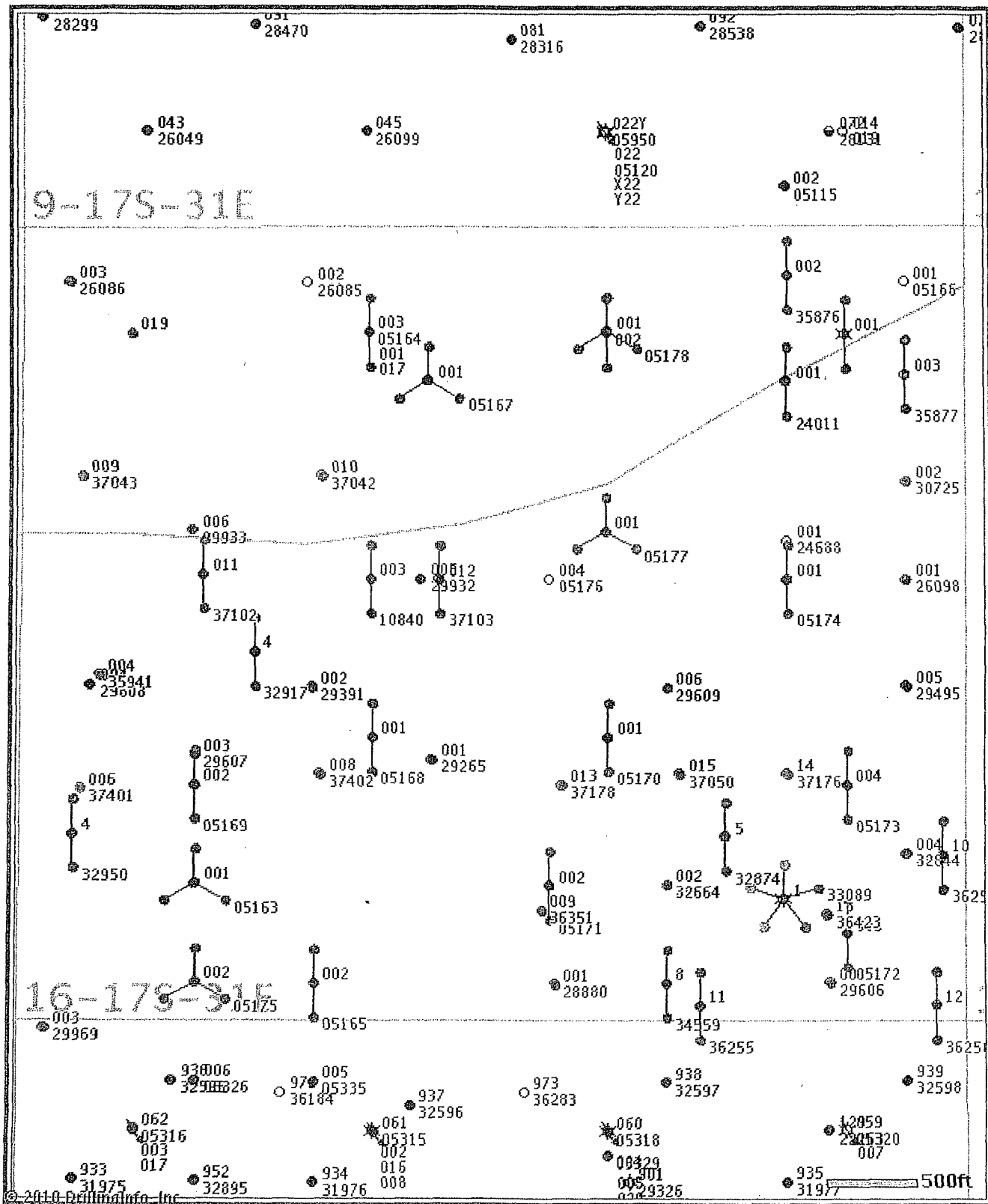
30-015-05177	KERSEY & COMPANY TRITEX RESOURCES, L.L.C.	STATE W K	001	EDDY	T:17S, R:31E S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	Q	Pumping	Jan 1950	Mar 2009
30-015-05178		KERSEY STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,780	Q	Pumping	Jan 1949	Nov 2009
30-015-05178	RAY WESTALL	KERSEY STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,780	Q	Pumping	Jan 1972	Apr 1974
30-015-10840	WISER OIL CO (THE)	STATE A	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	Q	Active	Jan 1967	Dec 1977
30-015-10840	FOREST OIL CORPORATION	STATE A	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	Q	Active	Jan 1969	Nov 2009
30-015-24011	COG OPERATING LLC	CHOCTAW STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,600	Q	Active	Apr 1982	Nov 2009
30-015-26086	TRITEX RESOURCES, L.L.C.	KERSEY STATE	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,667	PO	Pumping	May 1989	Nov 2009
30-015-26098	MARBOB ENERGY CORP	FORAN STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,832	Q	Pumping	Mar 1950	Feb 2000
30-015-28880	COG OPERATING LLC	WILLOW STATE	001	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	8,990	Q	Pumping	Jun 1996	Nov 2009
30-015-29265	COG OPERATING LLC	YUCCA STATE	001	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,435	Q	Pumping	Jan 1954	Nov 2009
30-015-29391	COG OPERATING LLC	YUCCA STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,502	Q	Pumping	Nov 1997	Nov 2009
30-015-29495	COG OPERATING LLC	WILLOW STATE	005	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	8,700	Q	Pumping	Jun 1997	Nov 2009
30-015-29606	COG OPERATING LLC	WILLOW STATE	003	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,507	Q	Pumping	Oct 1997	Nov 2009
30-015-29607	COG OPERATING LLC	YUCCA STATE	003	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,518	Q	Pumping	Aug 1997	Nov 2009
30-015-29609	COG OPERATING LLC	WILLOW STATE	006	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,460	Q	Pumping	Nov 1997	Nov 2009
30-015-29969	FOREST OIL CORPORATION	STATE AZ	003	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	3,759	Q	Pumping	May 1998	Jul 2009
30-015-30725	MARBOB ENERGY CORP	FORAN STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,530	Q	Pumping	Oct 1999	Nov 2009
30-015-32664	COG OPERATING LLC	WILLOW STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	6,505	Q	Active	May 2003	Nov 2009
30-015-32844	COG OPERATING LLC	WILLOW STATE	004	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	5,405	Q	Active	Jul 2003	Nov 2009
30-015-00000		SHELL	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	SR-Q-G-SA		G	Active	Jan 1967	Dec 1967

30-015-00000		SHELL	001	EDDY	T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA			G	Active	Mar 1961	Jan 1969
30-015-05178		STATE W K	001	EDDY	S:16, T:17S, R:31E	FREN		SEVEN RIVERS	3,780		O	Pumping		
30-015-05174		MOBIL STATE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	3,739		O	Active	Jan 1961	Feb 1979
30-015-33089	MARBOB ENERGY CORP		1	EDDY	S:16, T:17S, R:31E	FREN		CISCO-CANYON (O)	12,200		G	Active		
30-015-33089	OXY USA WTP LIMITED PARTNERSHIP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	FREN		MORROW	12,200		G	Active		
30-015-33089	MARBOB ENERGY CORP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	FREN, CISCO-CANYON			12,200		G	Active		
30-015-32874	FOREST OIL CORPORATION	STATE B	5	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	3,900		O	Active	May 2004	Nov 2009
30-015-32950	FOREST OIL CORPORATION	STATE AZ	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	3,800		O	Active	May 2004	Nov 2009
30-015-32917	FOREST OIL CORPORATION	STATE A	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	4,000		O	Active	May 2004	Nov 2009
30-015-05165	KERSEY ET AL	MACY	002	EDDY	S:16, T:17S, R:31E	FRENN			0		O	Active	Apr 1949	Dec 1971
30-015-05175	PACIFIC WESTERN OIL CORP.	STATE E	002	EDDY	S:16, T:17S, R:31E	FREN		MORROW	0		O	Pumping	Aug 1949	Dec 1965
30-015-05167	KERSEY & CO.	STATE B	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA	0		O	Active	Feb 1947	Dec 1965
30-015-00000	RANDEL O.H.	STATE B	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA			O	Active	Jan 1947	Dec 1957
30-015-00000	KERSEY AND CO	W K STATE	002	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON		SR-Q-G-SA			O	Active	Jan 1958	Dec 1971
30-015-00000	randel, o. h.	State B	001	EDDY	S:16, T:17S, R:31E	grayburg,jackson pool					O	Active	Jan 1951	Dec 1953
30-015-00000	KERSEY & CO.	STATE	017	EDDY	S:16, T:17S, R:31E	GRAYBURG-JACKSON POOL					O	Active	Oct 1952	Dec 1956
30-015-24011	MURCHINSON & CLOSUIT	STATE C	001	EDDY	S:16, T:17S, R:31E	GRAYBURG-JACKSON POOL			3,600		O	Active	Mar 1949	Nov 1949
30-015-00000	KERSEY & COMPANY	STATE B	019	EDDY	S:16, T:17S, R:31E	GRAYBURG-JACKSON POOL					O	Active	Jan 1956	Dec 1956
30-015-05174	MURCHISON & CLOSUIT	STATE C	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON OIL			3,739		O	Active	Mar 1947	Aug 1948
30-015-05177	RANDEL, O.H.	STATE B	001	EDDY	S:16, T:17S, R:31E	GRYBURG JACKSON			0		O	Pumping	Jan 1947	Dec 1957
	GEN AMERICAN				S:16,									

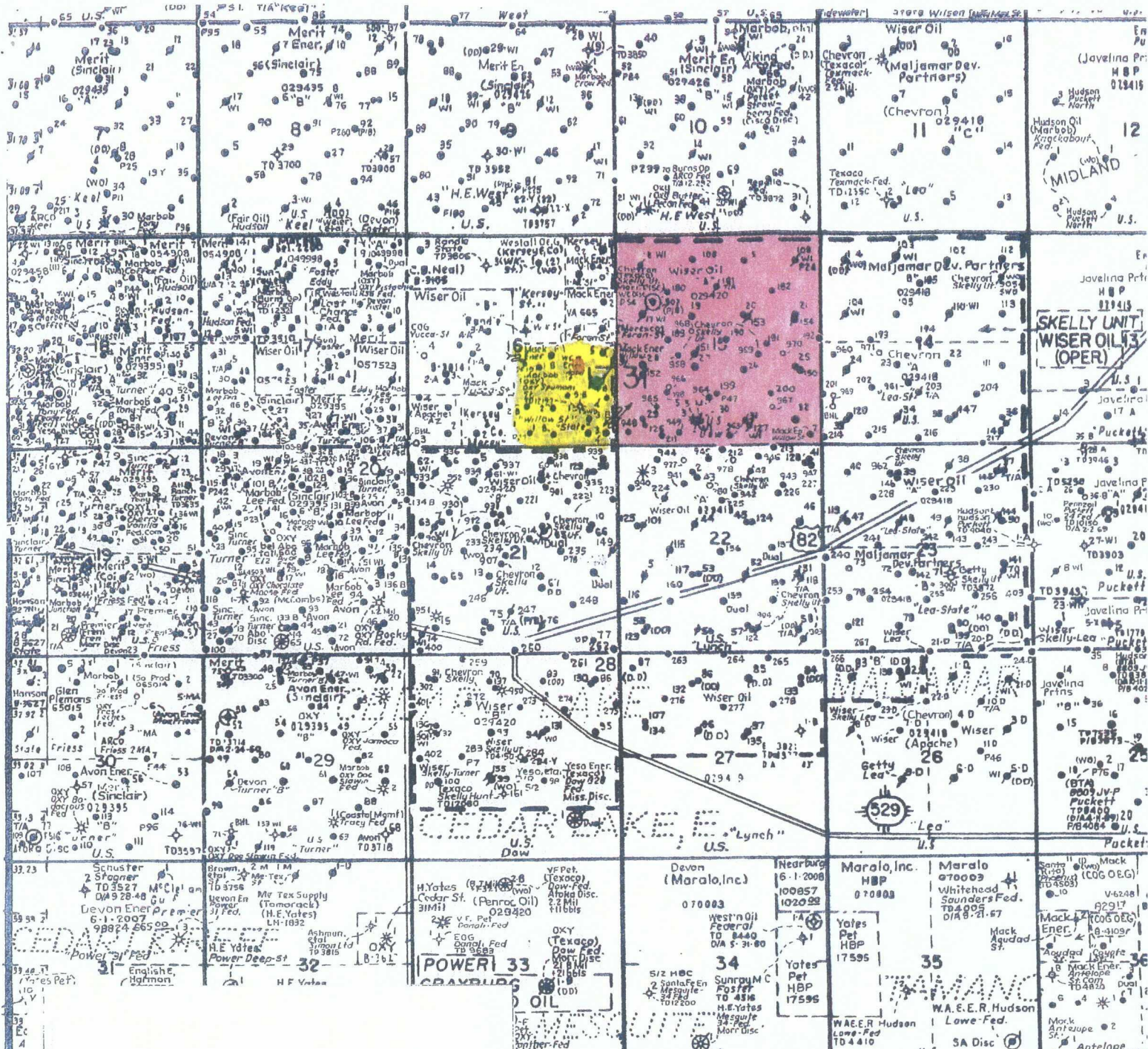
30-015-05163	OIL CO OF TEXAS	STATE E	001	EDDY	T:17S, R:31E	GRAYBURG JACKSON QUEEN S A		3,547	O	Pumping	Jan 1948	Dec 1965
30-015-05167	KERSEY & COMPANY	MACY TALMADGE	001	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Active	Jan 1957	Dec 1957
30-015-05175	GETTY OIL COMPANY	STATE AZ	002	EDDY	S:16, T:17S, R:31E	FREN 7 RIVRS		0	O	Pumping	Jan 1971	Dec 1971
30-015-34559	COG OPERATING LLC	WILLOW STATE	8	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	6,310	O	Active Permit	Mar 2006	Nov 2009
30-015-33089	OXY USA LIMITED PARTNERSHIP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	UNDSG FREN MORROW		12,200	G	Active		
30-015-35877	COG OPERATING LLC	CHOCTAW STATE	003	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	6,625	O	Active Permit	Apr 2008	Nov 2009
30-015-35876	COG OPERATING LLC	CHOCTAW STATE	002	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	6,610	O	Active Permit	Dec 2007	Nov 2009
30-015-33089	MARBOB ENERGY CORP	OXY SPUMONI STATE	1	EDDY	S:16, T:17S, R:31E	SWD	UPPER PENN	12,200	G	Active	Jan 2005	Nov 2009
30-015-35941	COG OPERATING LLC	YUCCA STATE	004	EDDY	S:16, T:17S, R:31E	FREN	PADDOCK	6,400	PO	Active Permit		
30-015-34559	COG OPERATING LLC	WILLOW STATE	8	EDDY	S:16, T:17S, R:31E	FREN;PADDOCK		6,310	O	Active Permit		
30-015-35876	COG OPERATING LLC	CHOCTAW STATE	002	EDDY	S:16, T:17S, R:31E	FERN; GLORIETA-YESO 26770		6,610	O	Active Permit		
30-015-36254	FOREST OIL CORPORATION	FOC B STATE	10	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	4,075	O	Active Permit	Sep 2008	Nov 2009
30-015-36255	FOREST OIL CORPORATION	FOC B STATE	11	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	4,040	O	Active Permit	Aug 2008	Nov 2009
30-015-36256	FOREST OIL CORPORATION	FOC B STATE	12	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON	SR-Q-G-SA	4,030	O	Active Permit	Aug 2008	Jul 2009
30-015-35877	COG OPERATING LLC	CHOCTAW STATE	003	EDDY	S:16, T:17S, R:31E	FERN; GLORIETA-YESO		6,625	O	Active Permit		
30-015-36423	FOREST OIL CORPORATION	STATE B	13	EDDY	S:16, T:17S, R:31E	GRAYBURG (JACKSON;SR-Q-G-SA)	JACKSON;SR-Q-G-SA	4,100	PI	Active Permit		
30-015-36351	COG OPERATING LLC	WILLOW STATE	009	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK		PO	Active Permit		
30-015-36255	FOREST OIL CORPORATION	FOC B STATE	11	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON;SR-Q-G-SA		4,040	O	Active Permit		
30-015-36254	FOREST OIL CORPORATION	FOC B STATE	10	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON;SR-Q-G SA		4,075	O	Active Permit		
30-015-36256	FOREST OIL CORPORATION	FOC B STATE	12	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON;SR-Q-G-SA		4,030	O	Active Permit		

30-015-37043	COG OPERATING LLC	YUCCA STATE	009	EDDY	T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	PO	Active Permit		
30-015-37042	COG OPERATING LLC	YUCCA STATE	010	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	PO	Active Permit		
30-015-37050	COG OPERATING LLC	WILLOW STATE	015	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	PO	Active Permit	Sep 2009	Nov 2009
30-015-37102	COG OPERATING LLC	YUCCA STATE	011	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,615	O	Active Permit	Nov 2009	Nov 2009
30-015-37103	COG OPERATING LLC	YUCCA STATE	012	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,600	O	Active Permit	Sep 2009	Nov 2009
30-015-37178	COG OPERATING LLC	WILLOW STATE	013	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,800	PO	Active Permit		
30-015-37176	COG OPERATING LLC	WILLOW STATE	14	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,800	PO	Active Permit		
30-015-32874	THE WISER OIL COMPANY	STATE "B"	5	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON; SR-Q-G-SA		3,900	O	Active		
30-015-37103	COG OPERATING LLC	YUCCA STATE	012	EDDY	S:16, T:17S, R:31E	FREN; GLORIETA-YESO		6,600	O	Active Permit		
30-015-37401	COG OPERATING LLC	YUCCA STATE	006	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,900	PO	Active Permit		
30-015-37402	COG OPERATING LLC	YUCCA STATE	008	EDDY	S:16, T:17S, R:31E	FREN (PADDOCK)	PADDOCK	6,900	PO	Active Permit		
30-015-32917	THE WISER OIL COMPANY	STATE "A"	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON; SR-Q-G-SA		4,000	O	Active		
30-015-32950	THE WISER OIL COMPANY	STATE "AZ"	4	EDDY	S:16, T:17S, R:31E	GRAYBURG JACKSON; SR-Q-G-SA		3,800	O	Active		
30-015-37102	COG OPERATING LLC	YUCCA STATE	011	EDDY	S:16, T:17S, R:31E	FREN; GLORIETA-YESO		6,615	O	Active Permit		

Offset Wells to Willow State #12



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Willow State

State Lease # B0-2613

Federal Lease # NMLC-029420A
COG OPERATING 100%

