

02/19/2013 DATE IN	SUSPENSE	ENGINEER DB	02/19/13 LOGGED IN	TYPE NSL	PRG 1305050241 APP NO.
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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



30-015-40728
 Skelly Unit #781
 OG Operating LLC

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]

6767

[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

- [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

RECEIVED OGD
 2013 FEB 19 A 11:40

INTEREST ARE THE SAME

[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.

Kelly J. Holly
 Print or Type Name

Signature

Permitting Tech
 Title

2-18-13
 Date

(432) 685-4384
 Phone Number

kholly@concho.com
 E-mail Address

**Skelly Unit #781
Eddy County, NM**

DIRECTIONAL Fren; Glorieta Yeso oil well
TVD of approximately 6700'

Location:

SHL: 1025' FNL & 15' FEL Sec 22, T17S, R31E, Unit A
BHL: 990' FNL & 330' FWL Sec 23, T17S, R31E, Unit D

This well had to be drilled at a non-standard location due to a buried pipelines and electrical lines.

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
drilled in March 2006

The Willow State #8 Yeso completion has overall perforations from 5380.5' – 5845.5', but is divided into 2 perf/stimulation intervals. At this time, we assume the Skelly Unit 783 will be very similar.

1st Interval: 5650' – 5845.5', 67 total holes.
acidized w/ 2265 gals acid,
frac'd w/ 8000# LiteProp, 30,000 gals 30# gel, 54,663 gals 40# gel, & 90,560# 16/30 sand

2nd Interval: 5380.5' – 5544', 56 total holes.
acidized w/ 2550 gals acid,
frac'd w/ 8006# LiteProp, 30,000 gals 30# gel, 53,000 gals 40# gel, & 91,740# 16/30 sand

Attachment 1

Plat and map

Attachment 2

Map and legend of offset wells.

Attachment 3

Updated land plat showing that COG owns offset acreage.
The acreage we are encroaching on is Units A and H of Section 22 and Unit E of Section 23.

Interests are common.

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

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40728	Pool Code 26770	Pool Name Fren; Glorieta Yeso
Property Code 305607	Property Name SKELLY UNIT	Well Number 781
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3874'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	17-S	31-E		1025	NORTH	15	EAST	EDDY

Bottom Hole Location If Different From Surface

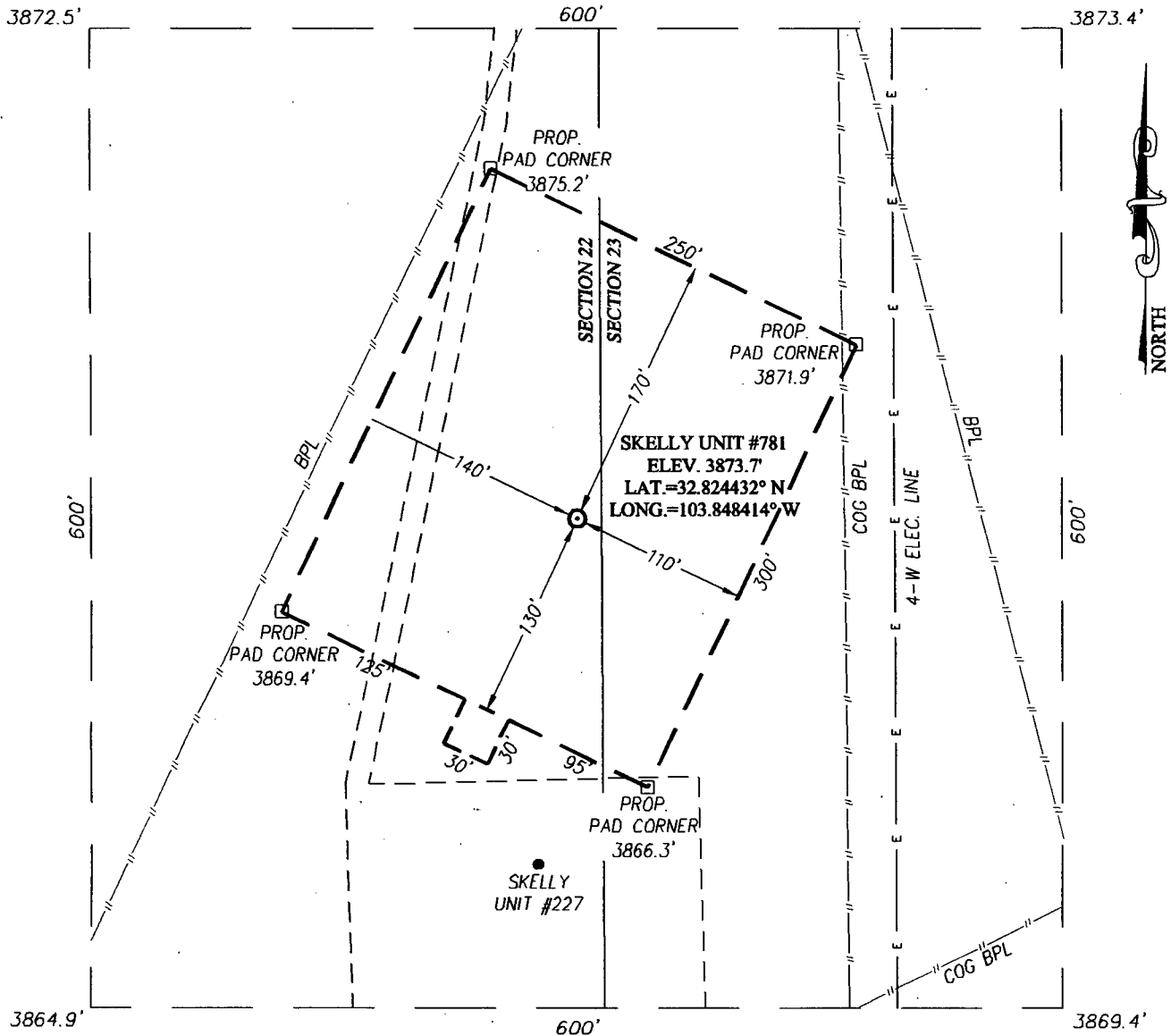
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	17-S	31-E		990	NORTH	330	WEST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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

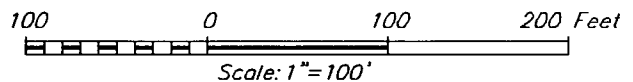
DETAIL 3872.5' 3873.4' 600' 3864.9' 3869.4' 1025' 990' 330' B.H. SEE DETAIL 15' GRID AZ. = 83°47'35" HORIZ. DIST. = 346.9' Estimated Completed Interval: 996 FNL + 230 FWL GEODEIC COORDINATES NAD 27 NME SURFACE LOCATION Y=663981.3 N X=648962.7 E BOTTOM HOLE LOCATION LAT.=32.824432° N LONG.=103.848414° W Y=664018.8 N X=649307.5 E CORNER COORDINATES TABLE A) Y=665000.4 N, X=647650.6 E B) Y=665015.7 N, X=650292.4 E C) Y=663695.2 N, X=650299.4 E D) Y=663676.5 N, X=647658.4 E SEC. 22 SEC. 23	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 unless 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 Date 2-18-13 Kelly J. Holly Printed Name kholly@concho.com E-mail Address 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. MAY 24, 2012 Date of Survey Signature & Seal of Professional Surveyor: Certificate Number 12641 Gary G. Eidson Registered Professional Surveyor AF W.O.: 11.11.2194
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SECTION 22, 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) GO NORTHEAST ON U.S. HWY. #82 APPROX. 1.5 MILES. TURN LEFT @ WISER OIL CO. SIGN AND GO NORTHWEST APPROX. 0.4 MILES. TURN LEFT AND GO SOUTH APPROX. 0.1 MILES TO THE SKELLY UNIT #227. THE LOCATION STAKE IS 213 FEET NORTH OF THE EXISTING LINN OPERATING PUMPING UNIT.



COG OPERATING, LLC

SKELLY UNIT #781 WELL
LOCATED 1025 FEET FROM THE NORTH LINE
AND 15 FEET FROM THE EAST LINE OF SECTION 22,
TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

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

Survey Date: 5/24/12	CAD Date: 6/7/12	Drawn By: AF
W.O. No.: 11112194	Rev.:	Rel. W.O.:

Sheet 1 of 1

Producing Wells in Sec 22, T17S, R31E

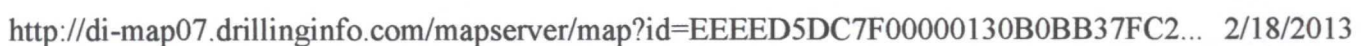
API#	Operator	Lease	Well#	County	Legal	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Prac. IP (MCF/D)
30-015-05358	LINN OPERATING, INC.	SKELLY UNIT	101	EDDY	S:22, T:17S, R:31E	3,725	I	Injection Well	Jan 1971	Nov 2012	0.00
30-015-22251	LINN OPERATING, INC.	SKELLY UNIT	117	EDDY	S:22, T:17S, R:31E	0	O	Pumping	Jan 1993	Nov 2012	0.00
30-015-22257	LINN OPERATING, INC.	SKELLY UNIT	123	EDDY	S:22, T:17S, R:31E	2,580	O	Shut-in	Sep 2001	Nov 2012	0.00
30-015-22262	LINN OPERATING, INC.	SKELLY UNIT	128	EDDY	S:22, T:17S, R:31E	2,550	O	Active	Jan 1979	Nov 2012	0.00
30-015-00000	SKELLY OIL CO	LYNCH A BTRY 1	001	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL COMPANY	LYNCH "A"	006	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1954	Dec 1956	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED	002	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	004	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1947	Dec 1962	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	007	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1955	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	009	EDDY	S:22, T:17S, R:31E		G	Active	Sep 1958	Dec 1963	0.00
30-015-00000	SKELLY OIL CO.	LINCH A	003	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LYNCH A BTRY 1	007	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1958	Dec 1961	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	008	EDDY	S:22, T:17S, R:31E		O	Active	Jul 1958	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	010	EDDY	S:22, T:17S, R:31E		O	Active	Oct 1958	Dec 1963	0.00
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	011	EDDY	S:22, T:17S, R:31E		G	Active	Nov 1958	Dec 1966	0.00
30-015-00000	SKELLY OIL CO.	LYNCH A	001	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1948	Dec 1964	0.00
30-015-00000	SKELLY OIL CO.	LYNCH A	004	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1948	Apr 1965	0.00
30-015-05344	SKELLY OIL COMPANY	SKELLY UNIT	002	EDDY	S:22, T:17S, R:31E	0	O	Pumping	Jan 1971	Dec 1971	0.00
30-015-25042	LINN OPERATING, INC.	SKELLY UNIT	160	EDDY	S:22, T:17S, R:31E	3,900	PO	Active	Jan 1993	Nov 2012	0.04
30-015-05344	WISER OIL CO (THE)	SKELLY UNIT	002	EDDY	S:22, T:17S, R:31E	0	O	Pumping	Jan 1969	Dec 1977	0.07
30-015-25041	LINN OPERATING, INC.	SKELLY UNIT	159	EDDY	S:22, T:17S, R:31E	3,962	PO	Active	Jan 1993	Nov 2012	0.11
30-015-25040	LINN OPERATING, INC.	SKELLY UNIT	158	EDDY	S:22, T:17S, R:31E	4,049	PO	Temporarily Abandoned	Jan 1993	Nov 2012	0.29
	LINN OPERATING,				S:22, T:17S,						

30-015-28948	INC.	SKELLY UNIT	227	EDDY	R:31E	3,950	O	Pumping	Jul 1996	Nov 2012	0.39
30-015-21089	WISER OIL CO (THE)	SKELLY UNIT	115	EDDY	S:22, T:17S, R:31E	3,910	O	Temporarily Abandoned	Jan 1993	Sep 1997	0.54
30-015-25038	LINN OPERATING, INC.	SKELLY UNIT	156	EDDY	S:22, T:17S, R:31E	3,685	O	Active	Jan 1993	Nov 2012	0.54
30-015-25039	LINN OPERATING, INC.	SKELLY UNIT	157	EDDY	S:22, T:17S, R:31E	3,705	PO	Active	Jan 1993	Nov 2012	0.54
30-015-22262	WISER OIL CO (THE)	SKELLY UNIT	128	EDDY	S:22, T:17S, R:31E	2,550	O	Active	Jan 1972	Dec 1977	0.79
30-015-05348	WISER OIL CO (THE)	SKELLY UNIT	51	EDDY	S:22, T:17S, R:31E	12,275	U	Shut-in	Jan 1967	Dec 1977	1.07
30-015-05349	WISER OIL CO (THE)	SKELLY UNIT	055	EDDY	S:22, T:17S, R:31E	3,690	I	Injection Well	Jan 1967	Dec 1977	1.07
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	013	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Apr 1965	1.24
30-015-22252	LINN OPERATING, INC.	SKELLY UNIT	118	EDDY	S:22, T:17S, R:31E	2,580	O	Temporarily Abandoned	Jan 1993	Nov 2012	1.57
30-015-22256	LINN OPERATING, INC.	SKELLY UNIT	122	EDDY	S:22, T:17S, R:31E	2,600	O	Pumping	Jan 1993	Nov 2012	1.57
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	010	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1964	Apr 1965	1.72
30-015-05344	LINN OPERATING, INC.	SKELLY UNIT	002	EDDY	S:22, T:17S, R:31E	0	O	Pumping	Jan 1967	Nov 2012	1.93
30-015-22258	LINN OPERATING, INC.	SKELLY UNIT	124	EDDY	S:22, T:17S, R:31E	11,065	O	Active	Jan 1993	Nov 2012	2.11
30-015-05343	LINN OPERATING, INC.	SKELLY UNIT	041	EDDY	S:22, T:17S, R:31E	3,818	I	Injection Well	Jan 1967	Nov 2012	2.14
30-015-05349	LINN OPERATING, INC.	SKELLY UNIT	055	EDDY	S:22, T:17S, R:31E	3,690	I	Injection Well	Jan 1969	Nov 2012	2.18
30-015-05353	WISER OIL CO (THE)	SKELLY UNIT	057	EDDY	S:22, T:17S, R:31E	0	I	Injection Well	Jan 1967	Dec 1977	2.64
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	007	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1964	Dec 1965	2.97
30-015-22259	LINN OPERATING, INC.	SKELLY UNIT	125	EDDY	S:22, T:17S, R:31E	2,500	O	Active	Jan 1993	Nov 2012	3.14
30-015-05352	WISER OIL CO (THE)	SKELLY UNIT	053	EDDY	S:22, T:17S, R:31E	3,810	G	Active	Jan 1967	Dec 1977	3.18
30-015-05347	SKELLY OIL COMPANY	SKELLY UNIT	003	EDDY	S:22, T:17S, R:31E	12,384	O	Active	Jan 1971	Dec 1971	3.18
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	014	EDDY	S:22, T:17S, R:31E		G	Active	Sep 1959	Dec 1966	3.29
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	008	EDDY	S:22, T:17S, R:31E		O	Active	Jan 1964	Dec 1965	3.45
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	009	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Apr 1965	3.45
30-015-05353	LINN OPERATING, INC.	SKELLY UNIT	057	EDDY	S:22, T:17S, R:31E	0	I	Injection Well	Jan 1971	Nov 2012	3.64
30-015-05355	WISER OIL CO (THE)	SKELLY UNIT	058	EDDY	S:22, T:17S, R:31E	0	PI	Injection Well	Jan 1967	Dec 1967	3.75

30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	012	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1960	Dec 1963	3.79
30-015-05358	WISER OIL CO (THE)	SKELLY UNIT	101	EDDY	S:22, T:17S, R:31E	3,725	I	Injection Well	Jan 1967	Dec 1977	5.14
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	013	EDDY	S:22, T:17S, R:31E		G	Active	Mar 1959	Dec 1963	6.53
30-015-37884	COG OPERATING LLC	SKELLY UNIT	743	EDDY	S:22, T:17S, R:31E	6,967	O	Active Permit	Dec 2010	Nov 2012	6.81
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	005	EDDY	S:22, T:17S, R:31E		G	Active	Jul 1961	Dec 1966	8.97
30-015-05348	WISER OIL CO (THE)	SKELLY UNIT	51	EDDY	S:22, T:17S, R:31E	12,275	U	Shut-in	Jan 1971	Feb 1997	9.18
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	012	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Dec 1965	10.62
30-015-05347	WISER OIL CO (THE)	SKELLY UNIT	003	EDDY	S:22, T:17S, R:31E	12,384	O	Active	Jan 1967	Mar 1974	10.68
30-015-05347	WISER OIL CO (THE)	SKELLY UNIT	003	EDDY	S:22, T:17S, R:31E	12,384	O	Active	Jan 1967	Mar 1974	11.57
30-015-05352	WISER OIL CO (THE)	SKELLY UNIT	053	EDDY	S:22, T:17S, R:31E	3,810	G	Active	Jan 1969	Feb 1987	12.18
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	011	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Dec 1965	12.34
30-015-05346	WISER OIL CO (THE)	SKELLY UNIT	045	EDDY	S:22, T:17S, R:31E	5,040	O	Injection Well	Jan 1967	Dec 1977	13.79
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	014	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Dec 1965	13.83
30-015-21090	LINN OPERATING, INC.	SKELLY UNIT	116	EDDY	S:22, T:17S, R:31E	4,000	O	Active	Jan 1993	Nov 2012	14.71
30-015-05346	LINN OPERATING, INC.	SKELLY UNIT	045	EDDY	S:22, T:17S, R:31E	5,040	O	Injection Well	Jan 1969	Nov 2012	14.86
30-015-29461	CHEVRON USA, INC.	SKELLY UNIT	904	EDDY	S:22, T:17S, R:31E	9,200	O	Shut-in	Apr 1998	Nov 2003	15.45
30-015-36680	COG OPERATING LLC	SKELLY UNIT	988	EDDY	S:22, T:17S, R:31E	6,716	O	Active Permit	Feb 2009	Jul 2009	23.39
30-015-36680	COG OPERATING LLC	SKELLY UNIT	988	EDDY	S:22, T:17S, R:31E	6,716	O	Active Permit	Feb 2009	Nov 2012	23.39
30-015-36964	COG OPERATING LLC	SKELLY UNIT	629	EDDY	S:22, T:17S, R:31E	6,804	O	Active Permit	Nov 2009	Nov 2012	27.71
30-015-38363	CHEVRON U S A INC	SKELLY UNIT	757	EDDY	S:22, T:17S, R:31E	6,756	O	Active Permit	Nov 2011	Nov 2012	29.45
30-015-34645	COG OPERATING LLC	SKELLY UNIT	942	EDDY	S:22, T:17S, R:31E	6,500	O	Active Permit	Jan 2008	Nov 2012	33.17
30-015-38672	CHEVRON U S A INC	SKELLY UNIT	759	EDDY	S:22, T:17S, R:31E	6,823	O	Active Permit	Dec 2011	Feb 2012	36.29
30-015-32966	CHEVRON U S A INC	SKELLY UNIT	947	EDDY	S:22, T:17S, R:31E	5,430	O	Active	Feb 2005	Nov 2012	36.32
30-015-36888	COG OPERATING LLC	SKELLY UNIT	610	EDDY	S:22, T:17S, R:31E	6,935	O	Active Permit	Jul 2009	Nov 2012	39.10
30-015-29208	WISER OIL CO (THE)	SKELLY UNIT	224	EDDY	S:22, T:17S, R:31E	4,000	O	Shut-in	Dec 1996	Oct 1999	40.13

30-015-36886	COG OPERATING LLC	SKELLY UNIT	609	EDDY	S:22, T:17S, R:31E	6,802	O	Active Permit	Sep 2009	Nov 2012	41.84
30-015-10500	LINN OPERATING, INC.	SKELLY UNIT	043	EDDY	S:22, T:17S, R:31E	0	G	Active	Jan 1967	Oct 2005	42.46
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	015	EDDY	S:22, T:17S, R:31E		G	Active	Nov 1961	Dec 1963	42.97
30-015-32599	CHEVRON U S A INC	SKELLY UNIT	940	EDDY	S:22, T:17S, R:31E	5,427	O	Active	Nov 2003	Nov 2012	44.10
30-015-32600	CHEVRON U S A INC	SKELLY UNIT	941	EDDY	S:22, T:17S, R:31E	5,478	O	Active	Nov 2003	Nov 2012	44.48
30-015-29182	LINN OPERATING, INC.	SKELLY UNIT	226	EDDY	S:22, T:17S, R:31E	4,000	O	Pumping	Dec 1996	Nov 2012	45.48
30-015-28973	LINN OPERATING, INC.	SKELLY UNIT	225	EDDY	S:22, T:17S, R:31E	4,000	O	Pumping	Aug 1996	Nov 2012	50.77
30-015-36887	COG OPERATING LLC	SKELLY UNIT	611	EDDY	S:22, T:17S, R:31E	6,890	O	Active Permit	Jul 2009	Nov 2012	56.97
30-015-38284	CHEVRON U S A INC	SKELLY UNIT	750	EDDY	S:22, T:17S, R:31E	6,928	PO	Active	Aug 2012	Nov 2012	58.80
30-015-00000	SKELLY OIL CO	LYNCH A FEDERAL	006	EDDY	S:22, T:17S, R:31E		G	Active	Apr 1963	Dec 1965	59.39
30-015-36766	COG OPERATING LLC	SKELLY UNIT	608	EDDY	S:22, T:17S, R:31E	6,723	O	Active Permit	Mar 2009	Nov 2012	60.10
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	005	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Dec 1965	60.69
30-015-32964	CHEVRON U S A INC	SKELLY UNIT	945	EDDY	S:22, T:17S, R:31E	5,483	O	Active	Feb 2004	Nov 2012	62.32
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	015	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Apr 1965	63.34
30-015-32962	CHEVRON U S A INC	SKELLY UNIT	943	EDDY	S:22, T:17S, R:31E	5,410	O	Active	Mar 2005	Nov 2012	64.73
30-015-00000	SKELLY OIL CO	LYNCH A BATTERY	017	EDDY	S:22, T:17S, R:31E		AP	Unknown	May 1965	Dec 1966	65.80
30-015-32965	CHEVRON U S A INC	SKELLY UNIT	946	EDDY	S:22, T:17S, R:31E	5,430	O	Active	Feb 2005	Nov 2012	65.81
30-015-00000	SKELLY OIL CO	LYNCH A FED REP 2	016	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1964	Apr 1965	71.31
30-015-38363	CHEVRON U S A INC	SKELLY UNIT	757	EDDY	S:22, T:17S, R:31E	6,756	O	Active Permit	Jan 2012	Feb 2012	71.79
30-015-38342	CHEVRON U S A INC	SKELLY UNIT	979	EDDY	S:22, T:17S, R:31E	6,745	O	Active Permit	Feb 2012	Nov 2012	73.71
30-015-38672	CHEVRON U S A INC	SKELLY UNIT	759	EDDY	S:22, T:17S, R:31E	6,823	O	Active Permit	Mar 2012	Nov 2012	79.37
30-015-36968	COG OPERATING LLC	SKELLY UNIT	627	EDDY	S:22, T:17S, R:31E	6,815	O	Active Permit	Dec 2009	Nov 2012	79.68
30-015-38251	CHEVRON U S A INC	SKELLY UNIT	976	EDDY	S:22, T:17S, R:31E	6,870	O	Active Permit	Nov 2011	Jan 2012	83.06
30-015-38283	CHEVRON U S A INC	SKELLY UNIT	754	EDDY	S:22, T:17S, R:31E	6,825	PO	Active	Sep 2012	Nov 2012	83.90
30-015-29762	LINN OPERATING, INC.	SKELLY UNIT	213	EDDY	S:22, T:17S, R:31E	3,950	O	Pumping	Oct 1997	Nov 2012	84.23

30-015-29031	LINN OPERATING, INC.	SKELLY UNIT	212	EDDY	S:22, T:17S, R:31E	4,060	O	Pumping	Nov 1996	Nov 2012	87.77
30-015-38252	CHEVRON U S A INC	SKELLY UNIT	753	EDDY	S:22, T:17S, R:31E	6,896	O	Active Permit	Jan 2012	Feb 2012	90.07
30-015-36515	COG OPERATING LLC	SKELLY UNIT	982	EDDY	S:22, T:17S, R:31E	6,830	U	Active Permit	Mar 2010	Nov 2012	91.90
30-015-36981	COG OPERATING LLC	SKELLY UNIT	628	EDDY	S:22, T:17S, R:31E	6,846	O	Active Permit	Sep 2009	Nov 2012	93.84
30-015-32963	CHEVRON U S A INC	SKELLY UNIT	944	EDDY	S:22, T:17S, R:31E	5,450	PO	Active	Jan 2004	Nov 2012	95.86
30-015-00000	SKELLY OIL CO	LYNCH A FED SEC 22	016	EDDY	S:22, T:17S, R:31E		G	Active	Dec 1961	Dec 1963	99.45
30-015-36516	COG OPERATING LLC	SKELLY UNIT	981	EDDY	S:22, T:17S, R:31E	6,505	O	Active Permit	Dec 2008	Nov 2012	103.39
30-015-40095	CHEVRON U S A INC	SKELLY UNIT	737	EDDY	S:22, T:17S, R:31E	6,747	O	Active Permit	Aug 2012	Nov 2012	119.60
30-015-38342	CHEVRON U S A INC	SKELLY UNIT	979	EDDY	S:22, T:17S, R:31E	6,745	O	Active Permit	Nov 2011	Jan 2012	120.42
30-015-36063	CHEVRON U S A INC	SKELLY UNIT	980	EDDY	S:22, T:17S, R:31E	6,633	O	Active Permit	Jul 2010	Nov 2012	142.61
30-015-36061	COG OPERATING LLC	SKELLY UNIT	977	EDDY	S:22, T:17S, R:31E	6,510	O	Active Permit	Mar 2008	Nov 2012	143.67
30-015-00000		LYNCH A FEDERAL	006	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1958	Dec 1965	171.75
30-015-36980	COG OPERATING LLC	SKELLY UNIT	626	EDDY	S:22, T:17S, R:31E	6,840	O	Active Permit	Jan 2010	Nov 2012	177.64
30-015-38252	CHEVRON U S A INC	SKELLY UNIT	753	EDDY	S:22, T:17S, R:31E	6,896	O	Active Permit	Jul 2011	Nov 2012	207.13
30-015-40096	CHEVRON U S A INC	SKELLY UNIT	747	EDDY	S:22, T:17S, R:31E	6,655	O	Active Permit	Aug 2012	Nov 2012	208.10
30-015-36454	COG OPERATING LLC	SKELLY UNIT	985	EDDY	S:22, T:17S, R:31E	6,530	O	Active Permit	Oct 2008	Nov 2012	213.63
30-015-36062	CHEVRON U S A INC	SKELLY UNIT	978	EDDY	S:22, T:17S, R:31E	6,736	O	Active Permit	Jul 2010	Nov 2012	254.39
30-015-38251	CHEVRON U S A INC	SKELLY UNIT	976	EDDY	S:22, T:17S, R:31E	6,870	O	Active Permit	Jun 2011	Nov 2012	256.32
30-015-36497	CHEVRON U S A INC	SKELLY UNIT	987	EDDY	S:22, T:17S, R:31E	6,630	O	Active Permit	Aug 2010	Nov 2012	276.77
30-015-36446	COG OPERATING LLC	SKELLY UNIT	986	EDDY	S:22, T:17S, R:31E	6,625	O	Active Permit	Nov 2009	Nov 2012	287.19
30-015-00000	SKELLY OIL COMPANY	LYNCH A	006	EDDY	S:22, T:17S, R:31E		G	Active	Jan 1957	Dec 1960	329.39
30-015-29419	CHEVRON USA, INC.	SKELLY UNIT	903	EDDY	S:22, T:17S, R:31E	8,000	O	Pumping	Jul 1997	Dec 2003	518.87
30-015-36062	CHEVRON U S A INC	SKELLY UNIT	978	EDDY	S:22, T:17S, R:31E	6,736	O	Active Permit	Jan 2012	Jan 2012	
30-015-36063	CHEVRON U S A INC	SKELLY UNIT	980	EDDY	S:22, T:17S, R:31E	6,633	O	Active Permit	Jan 2012	Jan 2012	
30-015-36497	CHEVRON U S A INC	SKELLY UNIT	987	EDDY	S:22, T:17S, R:31E	6,630	O	Active Permit	Jan 2012	Jan 2012	



Producing Wells in Sec 23, T17S, R31E

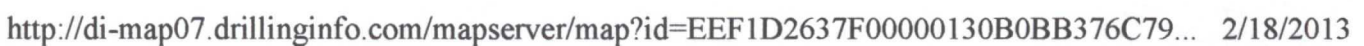
API#	Operator	Lease	Well#	County	Legal	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Prac. IP (MCF/D)
30-015-05365	FOREST OIL CORPORATION	SKELLY UNIT	070	EDDY	S:23, T:17S, R:31E	0	PI	Temporarily Abandoned	Jan 1969	May 1991	0.00
30-015-22253	FOREST OIL CORPORATION	SKELLY UNIT	119	EDDY	S:23, T:17S, R:31E		PO	Temporarily Abandoned	Jan 1993	Apr 1996	0.00
30-015-22484	LINN OPERATING, INC.	SKELLY UNIT	141	EDDY	S:23, T:17S, R:31E	2,700	O	Active	Sep 1993	Nov 2012	0.00
30-015-00000	SKELLY OIL CO	LEA A BTRY 1	001	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1954	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA A BTRY 1	004	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA B FED	001	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1954	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA B FED	002	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA A BTRY 2 FED	003	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA A BTRY 2 FED	005	EDDY	S:23, T:17S, R:31E		O	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA A BTRY 2 FED	007	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO	LEA A BTRY 2 FED	009	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1947	Dec 1966	0.00
30-015-00000	SKELLY OIL CO.	LEA A	010	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1948	Dec 1966	0.00
30-015-00000	skelly oil company	lea a	009	EDDY	S:23, T:17S, R:31E		O	Active	Jan 1953	Dec 1957	0.00
30-015-00000	SINCLAIR OIL & GAS COMPANY	LEA A	009	EDDY	S:23, T:17S, R:31E		O	Active	Jan 1956	Dec 1956	0.00
30-015-00000	SKELLY OIL CO.	LEA A	003	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1948	Dec 1964	0.00
30-015-00000	SKELLY OIL CO.	LEA A	004	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1948	Dec 1964	0.00
30-015-00000	SKELLY OIL CO.	LEA A	005	EDDY	S:23, T:17S, R:31E		O	Active	Jan 1948	Dec 1964	0.00
30-015-00000	SKELLY OIL CO.	LEA A	007	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1948	Dec 1964	0.00
30-015-00000	SKELLY OIL CO.	LEA A	009	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1948	Dec 1964	0.00
30-015-22255	LINN OPERATING, INC.	SKELLY UNIT	121	EDDY	S:23, T:17S, R:31E	2,600	I	Injection Well	Jan 1993	Nov 2012	0.11
30-015-22509	LINN OPERATING, INC.	SKELLY UNIT	140	EDDY	S:23, T:17S, R:31E	2,701	O	Active	Jan 1993	Nov 2012	0.82
30-015-22510	LINN OPERATING, INC.	SKELLY UNIT	142	EDDY	S:23, T:17S, R:31E	2,650	O	Pumping	Jan 1993	Nov 2012	0.89
					S:23, T:17S,						

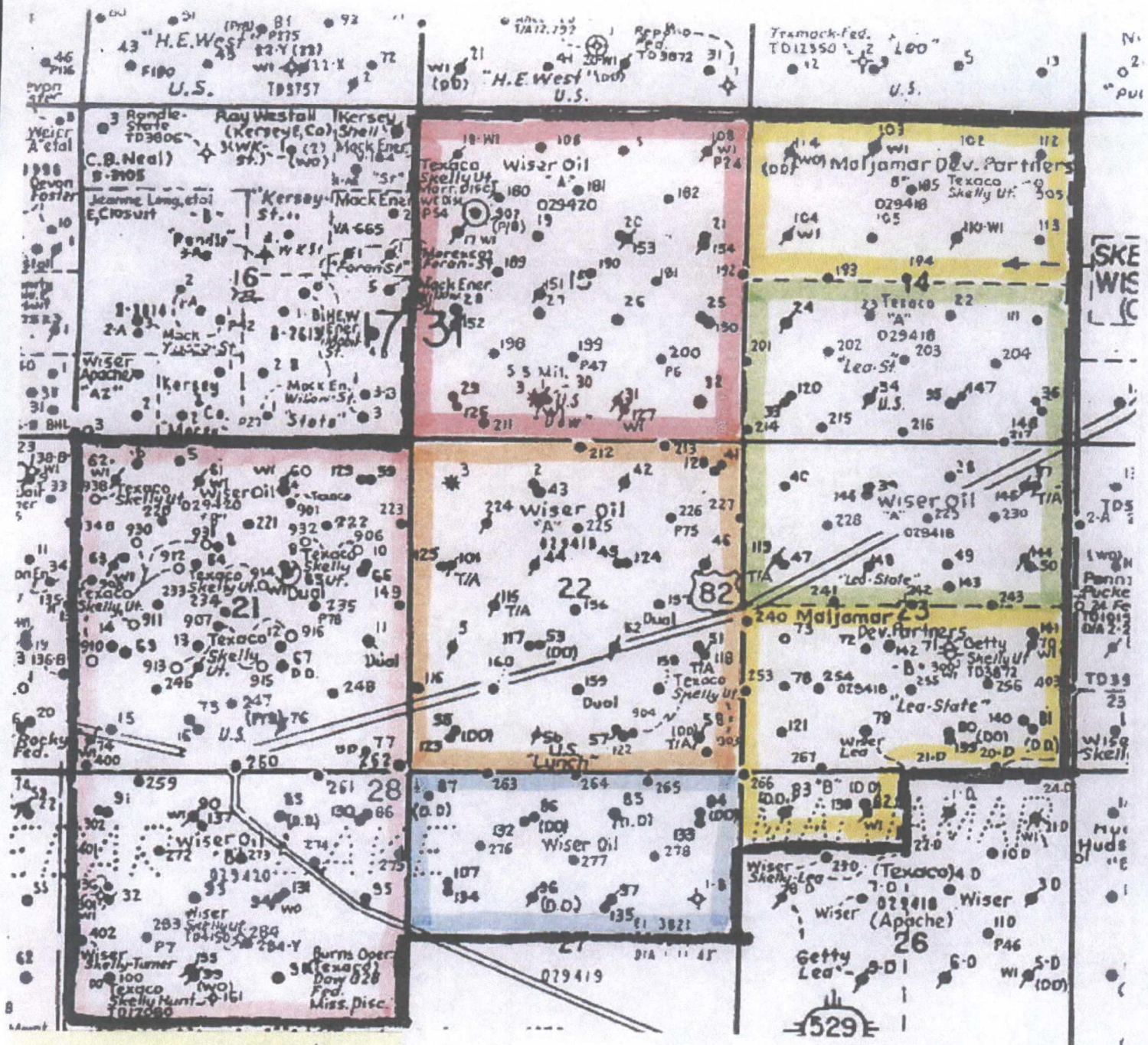
30-015-05362	LINN OPERATING, INC.	SKELLY UNIT	037	EDDY	R:31E	3,886	PO	Temporarily Abandoned	Jan 1971	May 2011	1.00
30-015-22520	LINN OPERATING, INC.	SKELLY UNIT	146	EDDY	S:23, T:17S, R:31E	2,646	O	Pumping	Jan 1993	Nov 2012	1.04
30-015-28949	LINN OPERATING, INC.	SKELLY UNIT	228	EDDY	S:23, T:17S, R:31E	4,005	O	Active	Oct 1996	Nov 2012	1.37
30-015-05364	LINN OPERATING, INC.	SKELLY UNIT	047	EDDY	S:23, T:17S, R:31E	3,822	I	Injection Well	Jan 1969	Nov 2012	1.68
30-015-22507	LINN OPERATING, INC.	SKELLY UNIT	139	EDDY	S:23, T:17S, R:31E	2,680	O	Pumping	Jan 1993	Nov 2012	1.82
30-015-05361	LINN OPERATING, INC.	SKELLY UNIT	039	EDDY	S:23, T:17S, R:31E	3,841	G	Active	Jan 1969	Nov 2012	2.50
30-015-00000	SKELLY OIL CO	LEA A BATTERY	014	EDDY	S:23, T:17S, R:31E		AP	Unknown	Apr 1966	Dec 1966	2.81
30-015-10504	WISER OIL CO (THE)	SKELLY UNIT	073	EDDY	S:23, T:17S, R:31E	0	O	Active	Jan 1967	Dec 1967	3.64
30-015-05363	WISER OIL CO (THE)	SKELLY UNIT	048	EDDY	S:23, T:17S, R:31E	3,857	I	Pumping	Jan 1969	Dec 1969	3.82
30-015-05359	WISER OIL CO (THE)	SKELLY UNIT	049	EDDY	S:23, T:17S, R:31E	3,850	O	Active	Jan 1971	Nov 1996	4.32
30-015-00000	SKELLY OIL CO	LEA B FED	014	EDDY	S:23, T:17S, R:31E		O	Active	Dec 1961	Dec 1966	4.71
30-015-29032	LINN OPERATING, INC.	SKELLY UNIT	240	EDDY	S:23, T:17S, R:31E	4,050	O	Active	Nov 1996	Nov 2012	5.55
30-015-05361	WISER OIL CO (THE)	SKELLY UNIT	039	EDDY	S:23, T:17S, R:31E	3,841	G	Active	Jan 1967	Dec 1977	6.36
30-015-05368		SKELLY UNIT	050	EDDY	S:23, T:17S, R:31E	11,600	O	Active	Jan 1967	Feb 1986	6.36
30-015-05364	WISER OIL CO (THE)	SKELLY UNIT	047	EDDY	S:23, T:17S, R:31E	3,822	I	Injection Well	Jan 1967	Dec 1977	6.39
30-015-34325	CHEVRON U S A INC	SKELLY UNIT	962	EDDY	S:23, T:17S, R:31E	5,470	PO	Active Permit	Jan 2006	Nov 2012	6.46
30-015-05366	LINN OPERATING, INC.	SKELLY UNIT	078	EDDY	S:23, T:17S, R:31E	3,855	O	Active	Jan 1971	Nov 2012	6.79
30-015-28950	LINN OPERATING, INC.	SKELLY UNIT	253	EDDY	S:23, T:17S, R:31E	4,000	O	Pumping	Nov 1996	Nov 2012	7.16
30-015-05365	WISER OIL CO (THE)	SKELLY UNIT	070	EDDY	S:23, T:17S, R:31E	0	PI	Temporarily Abandoned	Jan 1967	Dec 1977	7.93
30-015-22513	LINN OPERATING, INC.	SKELLY UNIT	143	EDDY	S:23, T:17S, R:31E	2,650	O	Temporarily Abandoned	Feb 1993	Nov 2012	7.97
30-015-36963	COG OPERATING LLC	SKELLY UNIT	631	EDDY	S:23, T:17S, R:31E	6,801	O	Active Permit	Oct 2009	Nov 2012	8.07
30-015-38017	COG OPERATING LLC	SKELLY UNIT	791	EDDY	S:23, T:17S, R:31E	7,015	O	Active	Dec 2010	Mar 2012	8.23
30-015-05360	WISER OIL CO (THE)	SKELLY UNIT	040	EDDY	S:23, T:17S, R:31E	3,827	G	Flowing	Jan 1967	Dec 1967	10.61
30-015-05362	WISER OIL CO (THE)	SKELLY UNIT	037	EDDY	S:23, T:17S, R:31E	3,886	PO	Temporarily Abandoned	Jan 1967	Dec 1977	12.71
30-015-39700	COG OPERATING LLC	SKELLY UNIT	794	EDDY	S:23, T:17S, R:31E	6,724	O	Active Permit	Apr 2012	Nov 2012	16.23

30-015-05366	WISER OIL CO (THE)	SKELLY UNIT	078	EDDY	S:23, T:17S, R:31E	3,855	O	Active	Jan 1967	Dec 1977	16.50
30-015-05372	WISER OIL CO (THE)	SKELLY UNIT	072	EDDY	S:23, T:17S, R:31E	3,000	I	Injection Well	Jan 1967	Dec 1977	16.50
30-015-05370	LINN OPERATING, INC.	SKELLY UNIT	080	EDDY	S:23, T:17S, R:31E	3,884	I	Injection Well	Jan 1969	Nov 2012	16.93
30-015-05363	WISER OIL CO (THE)	SKELLY UNIT	048	EDDY	S:23, T:17S, R:31E	3,857	I	Pumping	Jan 1967	Dec 1967	18.04
30-015-10770	WISER OIL CO (THE)	SKELLY UNIT	038	EDDY	S:23, T:17S, R:31E	3,910	PI	Injection Well	Jan 1967	Dec 1967	18.61
30-015-05359	WISER OIL CO (THE)	SKELLY UNIT	049	EDDY	S:23, T:17S, R:31E	3,850	O	Active	Jan 1967	Dec 1977	19.11
30-015-00000	SKELLY OIL CO	LEA B FED	013	EDDY	S:23, T:17S, R:31E		G	Active	Dec 1961	Dec 1966	20.68
30-015-29034	LINN OPERATING, INC.	SKELLY UNIT	254	EDDY	S:23, T:17S, R:31E	4,050	O	Pumping	Jan 1997	Nov 2012	22.11
30-015-37446	COG OPERATING LLC	SKELLY UNIT	795	EDDY	S:23, T:17S, R:31E	6,920	O	Active Permit	Feb 2010	Nov 2012	22.65
30-015-29183	LINN OPERATING, INC.	SKELLY UNIT	243	EDDY	S:23, T:17S, R:31E	4,050	O	Pumping	Feb 1997	Nov 2012	22.68
30-015-00000	SKELLY OIL CO	LEA A FED REP 3	001	EDDY	S:23, T:17S, R:31E		G	Active	Jan 1964	Dec 1964	23.34
30-015-00000	SKELLY OIL CO	LEA B FED	010	EDDY	S:23, T:17S, R:31E		G	Active	Jul 1960	Dec 1966	23.77
30-015-38016	COG OPERATING LLC	SKELLY UNIT	788	EDDY	S:23, T:17S, R:31E	7,080	O	Active	Dec 2010	Nov 2012	24.45
30-015-37885	CHEVRON U S A INC	SKELLY UNIT	783	EDDY	S:23, T:17S, R:31E	6,937	O	Active Permit	Jun 2011	Nov 2012	25.48
30-015-05370	WISER OIL CO (THE)	SKELLY UNIT	080	EDDY	S:23, T:17S, R:31E	3,884	I	Injection Well	Jan 1967	Dec 1977	26.25
30-015-05369	WISER OIL CO (THE)	SKELLY UNIT	079	EDDY	S:23, T:17S, R:31E	3,894	I	Injection Well	Jan 1967	Jul 1970	26.86
30-015-29033	LINN OPERATING, INC.	SKELLY UNIT	241	EDDY	S:23, T:17S, R:31E	4,000	O	Pumping	Dec 1996	Nov 2012	28.10
30-015-36763	COG OPERATING LLC	SKELLY UNIT	612	EDDY	S:23, T:17S, R:31E	6,708	O	Active Permit	Mar 2009	Nov 2012	28.37
30-015-36498	COG OPERATING LLC	SKELLY UNIT	989	EDDY	S:23, T:17S, R:31E	6,518	O	Active Permit	Dec 2008	Nov 2012	30.32
30-015-36514	COG OPERATING LLC	SKELLY UNIT	983	EDDY	S:23, T:17S, R:31E	6,700	O	Active Permit	Jan 2009	Nov 2012	32.71
30-015-29237	LINN OPERATING, INC.	SKELLY UNIT	242	EDDY	S:23, T:17S, R:31E	4,025	O	Temporarily Abandoned	Feb 1997	Nov 2012	34.58
30-015-00000	SKELLY OIL CO	LEA B FED	009	EDDY	S:23, T:17S, R:31E		G	Active	May 1960	Dec 1966	38.30
30-015-38361	CHEVRON U S A INC	SKELLY UNIT	769	EDDY	S:23, T:17S, R:31E	6,852	O	Active Permit	May 2012	Nov 2012	38.57
30-015-29224	LINN OPERATING, INC.	SKELLY UNIT	267	EDDY	S:23, T:17S, R:31E	3,950	O	Pumping	Jan 1997	Nov 2012	43.07
30-015-38445	COG OPERATING LLC	SKELLY UNIT	803	EDDY	S:23, T:17S, R:31E	6,744	O	Active Permit	Jun 2012	Nov 2012	43.39

30-015-00000	SKELLY OIL CO	LEA B FED	007	EDDY	S:23, T:17S, R:31E		G	Active	Apr 1960	Dec 1966	43.77
30-015-38379	COG OPERATING LLC	SKELLY UNIT	814	EDDY	S:23, T:17S, R:31E	6,740	O	Active Permit	Apr 2012	Nov 2012	44.55
30-015-05372	LINN OPERATING, INC.	SKELLY UNIT	072	EDDY	S:23, T:17S, R:31E	3,000	I	Injection Well	Jan 1971	Mar 2010	44.96
30-015-05371	WISER OIL CO (THE)	SKELLY UNIT	081	EDDY	S:23, T:17S, R:31E	3,910	I	Injection Well	Jan 1967	Jul 1970	47.46
30-015-38104	CHEVRON U S A INC	SKELLY UNIT	771	EDDY	S:23, T:17S, R:31E	6,860	O	Active Permit	Jun 2011	Nov 2012	55.97
30-015-36884	COG OPERATING LLC	SKELLY UNIT	615	EDDY	S:23, T:17S, R:31E	6,890	O	Active Permit	Jul 2009	Nov 2012	59.06
30-015-38380	COG OPERATING LLC	SKELLY UNIT	806	EDDY	S:23, T:17S, R:31E	6,747	O	Active Permit	Jun 2012	Nov 2012	59.19
30-015-38347	CHEVRON U S A INC	SKELLY UNIT	802	EDDY	S:23, T:17S, R:31E	7,016	O	Active Permit	Feb 2012	Nov 2012	60.10
30-015-40097	CHEVRON U S A INC	SKELLY UNIT	785	EDDY	S:23, T:17S, R:31E	6,739	O	Active Permit	Sep 2012	Nov 2012	61.06
30-015-37885	CHEVRON U S A INC	SKELLY UNIT	783	EDDY	S:23, T:17S, R:31E	6,937	O	Active Permit	Jan 2012	Feb 2012	63.69
30-015-28974	LINN OPERATING, INC.	SKELLY UNIT	256	EDDY	S:23, T:17S, R:31E	4,050	O	Pumping	Nov 1996	Nov 2012	65.13
30-015-29236	LINN OPERATING, INC.	SKELLY UNIT	230	EDDY	S:23, T:17S, R:31E	4,100	O	Active	Feb 1997	Nov 2012	70.13
30-015-29235	LINN OPERATING, INC.	SKELLY UNIT	229	EDDY	S:23, T:17S, R:31E	4,025	O	Pumping	Feb 1997	Nov 2012	71.87
30-015-31069	LINN OPERATING, INC.	SKELLY UNIT	403	EDDY	S:23, T:17S, R:31E	4,100	O	Pumping	Aug 2000	Nov 2012	72.33
30-015-36589	COG OPERATING LLC	SKELLY UNIT	990	EDDY	S:23, T:17S, R:31E	6,720	U	Active Permit	Dec 2009	Nov 2012	72.81
30-015-36962	COG OPERATING LLC	SKELLY UNIT	630	EDDY	S:23, T:17S, R:31E	6,818	O	Active Permit	Jan 2010	Nov 2012	77.57
30-015-38444	COG OPERATING LLC	SKELLY UNIT	799	EDDY	S:23, T:17S, R:31E	6,754	O	Active Permit	May 2012	Nov 2012	80.33
30-015-38349	COG OPERATING LLC	SKELLY UNIT	807	EDDY	S:23, T:17S, R:31E	6,845	O	Active Permit	Sep 2011	Nov 2012	86.42
30-015-38015	CHEVRON U S A INC	SKELLY UNIT	782	EDDY	S:23, T:17S, R:31E	7,128	O	Active	Dec 2011	Jan 2012	99.35
30-015-37840	COG OPERATING LLC	SKELLY UNIT	614	EDDY	S:23, T:17S, R:31E	7,025	O	Active Permit	Mar 2012	Nov 2012	104.50
30-015-36889	COG OPERATING LLC	SKELLY UNIT	616	EDDY	S:23, T:17S, R:31E	6,810	O	Active Permit	Sep 2009	Nov 2012	110.26
30-015-29238	LINN OPERATING, INC.	SKELLY UNIT	255	EDDY	S:23, T:17S, R:31E	4,100	O	Pumping	Jan 1997	Nov 2012	113.86
30-015-36356	COG OPERATING LLC	SKELLY UNIT	975	EDDY	S:23, T:17S, R:31E	6,747	O	Active Permit	Mar 2009	Nov 2012	127.30
30-015-39699	COG OPERATING LLC	SKELLY UNIT	766	EDDY	S:23, T:17S, R:31E	6,731	O	Active Permit	Apr 2012	Nov 2012	175.94
30-015-38450	CHEVRON U S A INC	SKELLY UNIT	810	EDDY	S:23, T:17S, R:31E	6,737	O	Active Permit	Dec 2011	Feb 2012	201.84

30-015-37186	COG OPERATING LLC	SKELLY UNIT	613	EDDY	S:23, T:17S, R:31E	6,511	O	Active Permit	Jan 2010	Nov 2012	
30-015-38015	CHEVRON U S A INC	SKELLY UNIT	782	EDDY	S:23, T:17S, R:31E	7,128	O	Active	Nov 2011	Nov 2012	
30-015-38450	CHEVRON U S A INC	SKELLY UNIT	810	EDDY	S:23, T:17S, R:31E	6,737	O	Active Permit	Nov 2011	Nov 2012	
30-015-38104	CHEVRON U S A INC	SKELLY UNIT	771	EDDY	S:23, T:17S, R:31E	6,860	O	Active Permit	Jan 2012	Jan 2012	





Section 28 + south of Hwy
Caviness Cattle Co.

1316 South Main
Portales, NM 88130
Allotment 6058

Section 21 + North of Hwy

Charles K. Martin

P.O. Box 706

Artesia, NM 88210

Allotment 2004

Lease #	Description
NM-98122	Sec. 21 and outlined part of Sec. 28
NM-98121	N/2 Sec. 27
NM-98120	N/2 Sec. 14 and S/2 Sec. 23 part of Sec. 26
LC-029418 (a)	S/2 Sec. 14 and N/2 Sec. 23
LC-029419 (a)	Sec. 22
LC-029420 (a)	Sec. 15



COG Operating LLC

Eddy County, NM (NAN27 NME)

Skelly Unit #781

OH

Plan #1 7-7/8" Hole

Surface: 1025' FNL & 15' FEL, Sec 22, T17S, R31E, Unit A

Top of Paddock: 28' North of Surface & 208' West of Surface @ 4900' TVD

BHL: 980' FNL & 340' FWL, Sec 23, T17S, R31E, Unit D

Standard Planning Report

21 June, 2012





Scientific Drilling International, Inc.
Planning Report



Database	EDM 5000.1 Single User-Db	Local Co-ordinate Reference:	Site Skelly Unit #781
Company	COG Operating LLC	TVD Reference	GL @ 3874.00usft
Project	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3874.00usft
Site	Skelly Unit #781	North Reference:	Grid
Well	Skelly Unit #781	Survey Calculation Method:	Minimum Curvature
Wellbore	OH		
Design	Plan #1 7-7/8" Hole		

Project	Eddy County, NM (NAN27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Skelly Unit #781		
Site Position:		Northing:	663,981.30 usft
From:	Map	Easting:	648,962.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 49' 27.956 N
		Longitude:	103° 50' 54.289 W
		Grid Convergence:	0.26 °

Well	Skelly Unit #781					
Well Position	+N-S	0.00 usft	Northing:	663,981.30 usft	Latitude:	32° 49' 27.956 N
	+E-W	0.00 usft	Easting:	648,962.70 usft	Longitude:	103° 50' 54.289 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,874.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	06/21/12	7.63	60.67	48,842

Design	Plan #1 7-7/8" Hole			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	82.37

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,223.04	4.46	82.37	2,222.82	1.15	8.60	2.00	2.00	36.93	82.37	
6,713.83	4.46	82.37	6,700.00	47.50	354.80	0.00	0.00	0.00	0.00	PBHL-SU #781



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Skelly Unit #781
Company:	COG Operating LLC	TVD Reference:	GL @ 3874.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3874.00usft
Site:	Skelly Unit #781	North Reference:	Grid
Well:	Skelly Unit #781	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" Hole		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8-5/8" Casing									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00°/100'									
2,100.00	2.00	82.37	2,099.98	0.23	1.73	1.75	2.00	2.00	0.00
2,200.00	4.00	82.37	2,199.84	0.93	6.92	6.98	2.00	2.00	0.00
2,223.04	4.46	82.37	2,222.81	1.15	8.60	8.68	2.00	2.00	0.00
Hold 4.46°									
2,300.00	4.46	82.37	2,299.54	1.95	14.53	14.66	0.00	0.00	0.00
2,400.00	4.46	82.37	2,399.24	2.98	22.24	22.44	0.00	0.00	0.00
2,500.00	4.46	82.37	2,498.94	4.01	29.95	30.22	0.00	0.00	0.00
2,600.00	4.46	82.37	2,598.63	5.04	37.66	38.00	0.00	0.00	0.00
2,700.00	4.46	82.37	2,698.33	6.07	45.37	45.78	0.00	0.00	0.00
2,800.00	4.46	82.37	2,798.03	7.11	53.08	53.55	0.00	0.00	0.00
2,900.00	4.46	82.37	2,897.72	8.14	60.79	61.33	0.00	0.00	0.00
3,000.00	4.46	82.37	2,997.42	9.17	68.50	69.11	0.00	0.00	0.00
3,100.00	4.46	82.37	3,097.12	10.20	76.21	76.89	0.00	0.00	0.00
3,200.00	4.46	82.37	3,196.82	11.23	83.92	84.66	0.00	0.00	0.00
3,300.00	4.46	82.37	3,296.51	12.27	91.63	92.44	0.00	0.00	0.00
3,400.00	4.46	82.37	3,396.21	13.30	99.33	100.22	0.00	0.00	0.00
3,500.00	4.46	82.37	3,495.91	14.33	107.04	108.00	0.00	0.00	0.00
3,600.00	4.46	82.37	3,595.60	15.36	114.75	115.78	0.00	0.00	0.00
3,700.00	4.46	82.37	3,695.30	16.39	122.46	123.55	0.00	0.00	0.00
3,800.00	4.46	82.37	3,795.00	17.43	130.17	131.33	0.00	0.00	0.00
3,900.00	4.46	82.37	3,894.69	18.46	137.88	139.11	0.00	0.00	0.00
4,000.00	4.46	82.37	3,994.39	19.49	145.59	146.89	0.00	0.00	0.00
4,100.00	4.46	82.37	4,094.09	20.52	153.30	154.67	0.00	0.00	0.00
4,200.00	4.46	82.37	4,193.79	21.56	161.01	162.44	0.00	0.00	0.00
4,300.00	4.46	82.37	4,293.48	22.59	168.72	170.22	0.00	0.00	0.00
4,400.00	4.46	82.37	4,393.18	23.62	176.42	178.00	0.00	0.00	0.00
4,500.00	4.46	82.37	4,492.88	24.65	184.13	185.78	0.00	0.00	0.00
4,600.00	4.46	82.37	4,592.57	25.68	191.84	193.55	0.00	0.00	0.00
4,700.00	4.46	82.37	4,692.27	26.72	199.55	201.33	0.00	0.00	0.00
4,800.00	4.46	82.37	4,791.97	27.75	207.26	209.11	0.00	0.00	0.00
4,808.06	4.46	82.37	4,800.00	27.83	207.88	209.74	0.00	0.00	0.00
Top of Paddock									
4,900.00	4.46	82.37	4,891.67	28.78	214.97	216.89	0.00	0.00	0.00
5,000.00	4.46	82.37	4,991.36	29.81	222.68	224.67	0.00	0.00	0.00
5,100.00	4.46	82.37	5,091.06	30.84	230.39	232.44	0.00	0.00	0.00
5,200.00	4.46	82.37	5,190.76	31.88	238.10	240.22	0.00	0.00	0.00
5,300.00	4.46	82.37	5,290.45	32.91	245.81	248.00	0.00	0.00	0.00
5,400.00	4.46	82.37	5,390.15	33.94	253.52	255.78	0.00	0.00	0.00
5,500.00	4.46	82.37	5,489.85	34.97	261.22	263.56	0.00	0.00	0.00
5,600.00	4.46	82.37	5,589.54	36.00	268.93	271.33	0.00	0.00	0.00
5,700.00	4.46	82.37	5,689.24	37.04	276.64	279.11	0.00	0.00	0.00
5,800.00	4.46	82.37	5,788.94	38.07	284.35	286.89	0.00	0.00	0.00
5,900.00	4.46	82.37	5,888.64	39.10	292.06	294.67	0.00	0.00	0.00
6,000.00	4.46	82.37	5,988.33	40.13	299.77	302.44	0.00	0.00	0.00
6,100.00	4.46	82.37	6,088.03	41.16	307.48	310.22	0.00	0.00	0.00
6,200.00	4.46	82.37	6,187.73	42.20	315.19	318.00	0.00	0.00	0.00
6,300.00	4.46	82.37	6,287.42	43.23	322.90	325.78	0.00	0.00	0.00
6,400.00	4.46	82.37	6,387.12	44.26	330.61	333.56	0.00	0.00	0.00
6,500.00	4.46	82.37	6,486.82	45.29	338.32	341.33	0.00	0.00	0.00



Database	EDM 5000.1 Single User Db	Local Co-ordinate Reference	Site Skelly Unit #781
Company	COG Operating LLC	TVD Reference:	GL @ 3874.00usft
Project	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3874.00usft
Site	Skelly Unit #781	North Reference:	Grid
Well	Skelly Unit #781	Survey Calculation Method:	Minimum Curvature
Wellbore	OH		
Design	Plan #1 7-7/8" Hole		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,600.00	4.46	82.37	6,586.52	46.33	346.02	349.11	0.00	0.00	0.00
6,700.00	4.46	82.37	6,686.21	47.36	353.73	356.89	0.00	0.00	0.00
6,713.83	4.46	82.37	6,700.00	47.50	354.80	357.97	0.00	0.00	0.00
PBHL-SU #781									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	
Shape									Latitude Longitude
PBHL-SU #781	- plan hits target center - Circle (radius 10.00)	0.00	0.01	6,700.00	47.50	354.80	664,028.80	649,317.50	32° 49' 28.410 N 103° 50' 50.129 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,900.00	1,900.00	8-5/8" Casing	8-5/8	12-1/4	

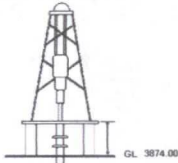
Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,808.06	4,800.00	Top of Paddock		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP Start Build 2.00°/100'
2,223.04	2,222.81	1.15	8.60	Hold 4.46°



Azimuth to Grid North
True North: 0.28°
Magnetic North: 7.37°
Magnetic Field
Strength: 48842.2nT
Dip Angle: 60.87°
Date: 05/21/2012
Model: IGRF2010

Skelly Unit #781
Eddy County, NM (NAN27 NME)
Northing (Y) 663981.30
Easting (X) 648962.70
Plan #1 7-7/8" Hole



WELL DETAILS: Skelly Unit #781

	+N-S	+E-W	Northing	Ground Level	3874.00	Longitude	Site
	0.00	0.00	663981.30	Easting	648962.70	32° 49' 27.956 N	103° 50' 54.290 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Deg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2223.04	4.46	82.37	2222.82	1.15	8.60	2.00	82.37	8.68	
4	6713.83	4.46	82.37	6700.00	47.50	354.80	0.00	0.00	357.97	PBHL-SU #781

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL-SU #781	6700.00	47.50	354.80	664028.80	649317.50	32° 49' 28.410 N	103° 50' 50.129 W	Circle (Radius: 10.00)
- plan hits target center								

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
4800.00	4808.06	Top of Paddock	0.00	

CASING DETAILS

TVD	MD	Name	Size
1900.00	1900.00	8-5/8" Casing	8-5/8"

SITE DETAILS: Skelly Unit #781

Site Center Northing: 663981.30
Easting: 648962.70

Positional Uncertainty: 0.00
Convergence: 0.26
Local North: Grid

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Eipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Local Origin: Site Skelly Unit #781, Grid North

Latitude: 32° 49' 27.956 N

Longitude: 103° 50' 54.290 W

Grid East: 648962.70

Grid North: 663981.30

Scale Factor: 1.0000

Geomagnetic Model: IGRF2010

Sample Date: 21-Jun-12

Magnetic Declination: 7.63°

Dip Angle from Horizontal: 60.87°

Magnetic Field Strength: 48842

To convert Magnetic North to Grid, Add 7.37°

To convert Magnetic North to True North, Add 7.63° East

To convert True North to Grid, Subtract 0.26°

PROJECT DETAILS: Eddy County, NM (NAN27 NME)

Geodesic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Eipsoid: Clarke 1866

Zone: New Mexico East 3001

System Datum: Mean Sea Level

