

Form 3160-3
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

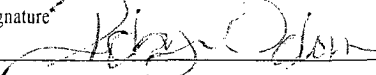
FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC-029419A
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Chevron USA Agent: COG Operating LLC		7. If Unit or CA Agreement, Name and No. NMNM - 71030C
3a. Address Agent Address: 550 W. Texas Ave., Suite 1300 Midland, TX 79701	3b. Phone No. (include area code) 432-685-4385	8. Lease Name and Well No. SKELLY UNIT #750 305607
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SHL: 1252' FSL & 94' FEL, Unit P At proposed prod. zone BHL: 1650' FSL & 330' FEL, Unit I		9. API Well No. 30-015-38284
14. Distance in miles and direction from nearest town or post office* 9 miles East of Loco Hills, NM		10. Field and Pool, or Exploratory Fren; Glorieta-Yeso 26770
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 94'	16. No. of acres in lease 720	11. Sec., T. R. M. or Blk. and Survey or Area Sec 22 T17S R31E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 100'	19. Proposed Depth 6900' 6928 MD	12. County or Parish EDDY
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3850' GL	22. Approximate date work will start* 12/31/2010	13. State NM
17. Spacing Unit dedicated to this well 40		
20. BLM/BIA Bond No. on file NMB000215		
23. Estimated duration 15 days		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Robyn M. Odom	Date 10/22/2010
Title Regulatory Analyst		

Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date NOV 3 2010
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

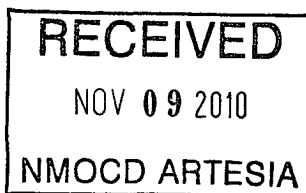
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Roswell Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

K2 11/22/10

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

X

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

11885 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

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

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015- 38284	Pool Code 26770	Pool Name FREN; GLORIETA-YESO
Property Code 305607	Property Name SKELLY UNIT	Well Number 750
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3850'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	17-S	31-E		1252	SOUTH	94	EAST	EDDY

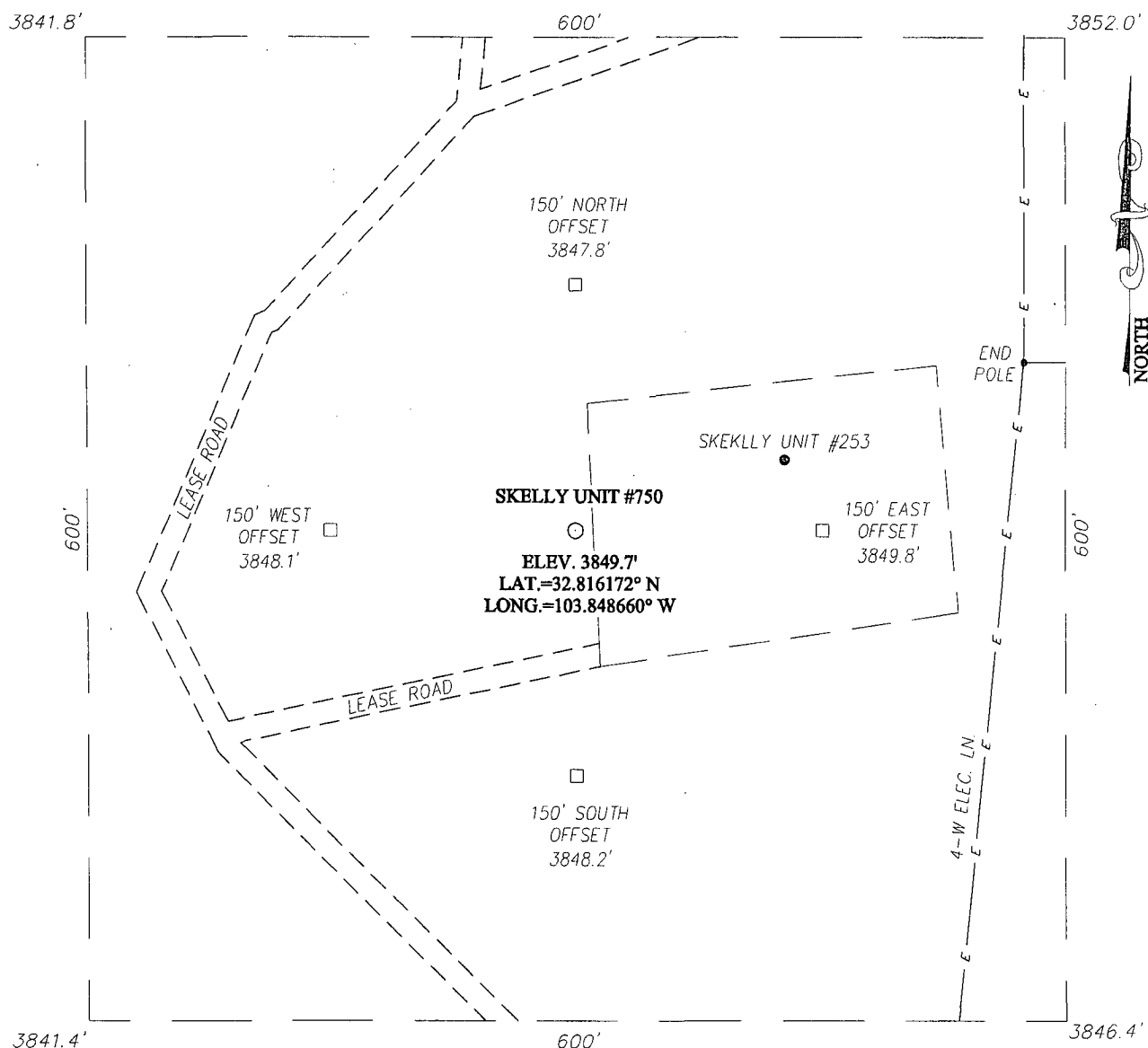
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	17-S	31-E		1650	SOUTH	330	EAST	EDDY
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

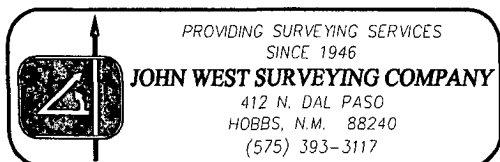
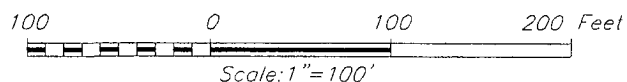
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=660975.6 N X=648900.7 E LAT.=32.816172° N LONG.=103.848660° W BOTTOM HOLE LOCATION Y=661371.8 N X=648662.6 E DETAIL 3841.8' 3852.0' 600' 3841.4' 3846.4' 600' GRID AZ.-328°59'28" HORZ. DIST.-462.3' SEE DETAIL 1650' 1252' 330' 94' Penetration Point H=58' FSL + 342' FEL	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>Robyn Odom</i> 8/24/2010 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. DATE SURVEYED AUG 16, 2010 Signature & Seal of Professional Surveyor <i>Ronald Eidson</i> 08/23/2010 Certificate No. GARY EIDSON 12641 RONALD EIDSON 3239
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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 RD.) GO EASTERLY ON U.S. HWY. #82 APPROX. 1.0 MILE. TURN RIGHT AND GO SOUTH TO AN INTERSECTION. TURN LEFT AND FOLLOW ROAD CURVING TO THE RIGHT APPROX. 0.2 MILES TO THE SKEKLLY UNIT #253 WELL PAD. THE LOCATION STAKE IS APPROX. 10 WEST OF EXISTING WELL PAD.

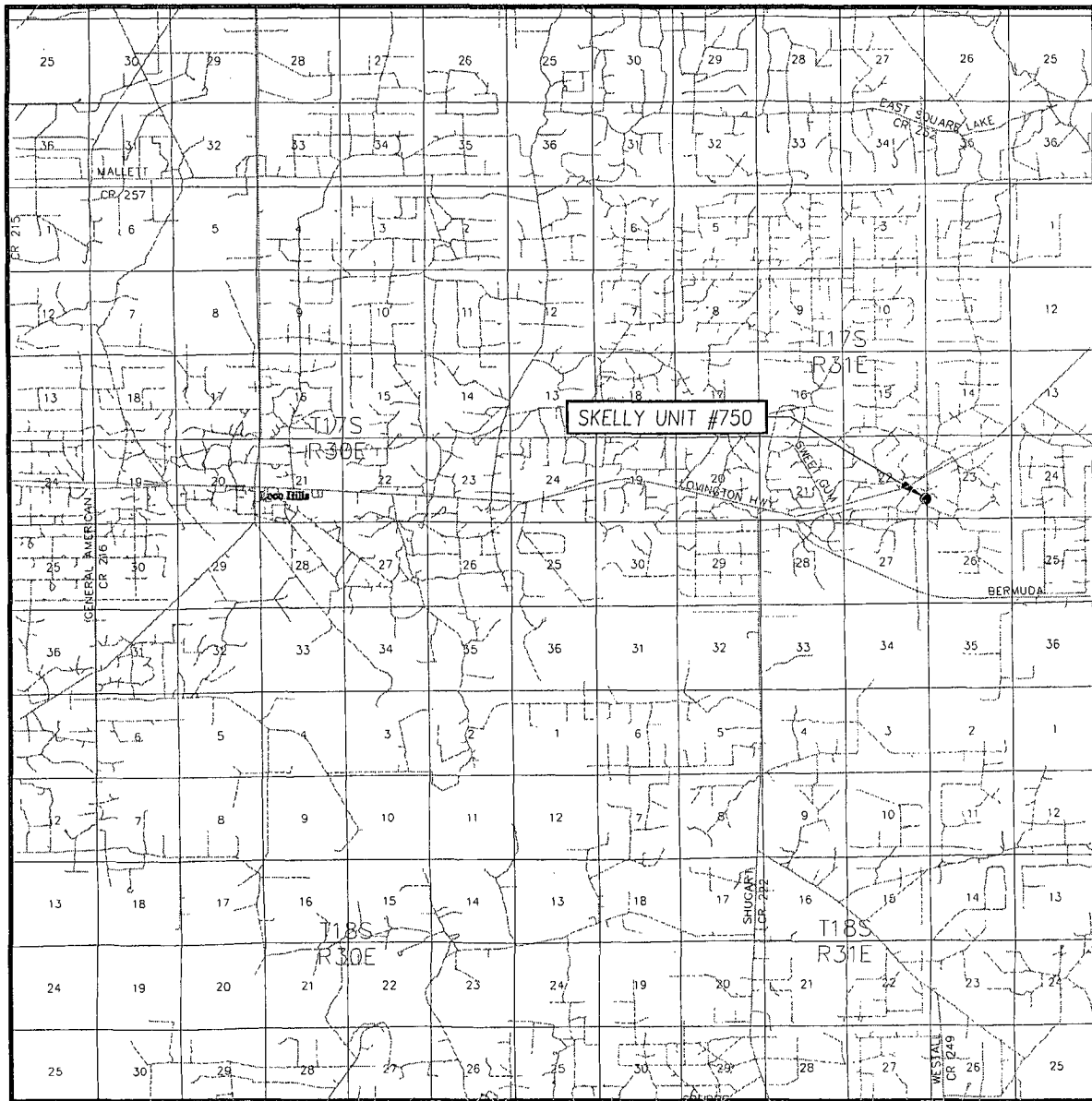


COG OPERATING, LLC

SKEKLLY UNIT #750 WELL
 LOCATED 1252 FEET FROM THE SOUTH LINE
 AND 94 FEET FROM THE EAST LINE OF SECTION 22,
 TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 8/16/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.1036	Dr By: LA
Date: 8/23/10	10111036
	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 22 TWP. 17-S RGE. 31-E

SURVEY N.M.P.M.

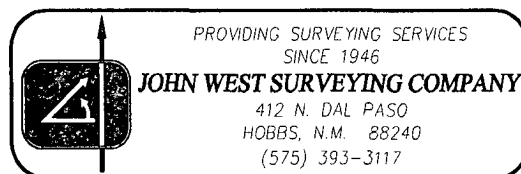
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1252' FSL & 94' FEL

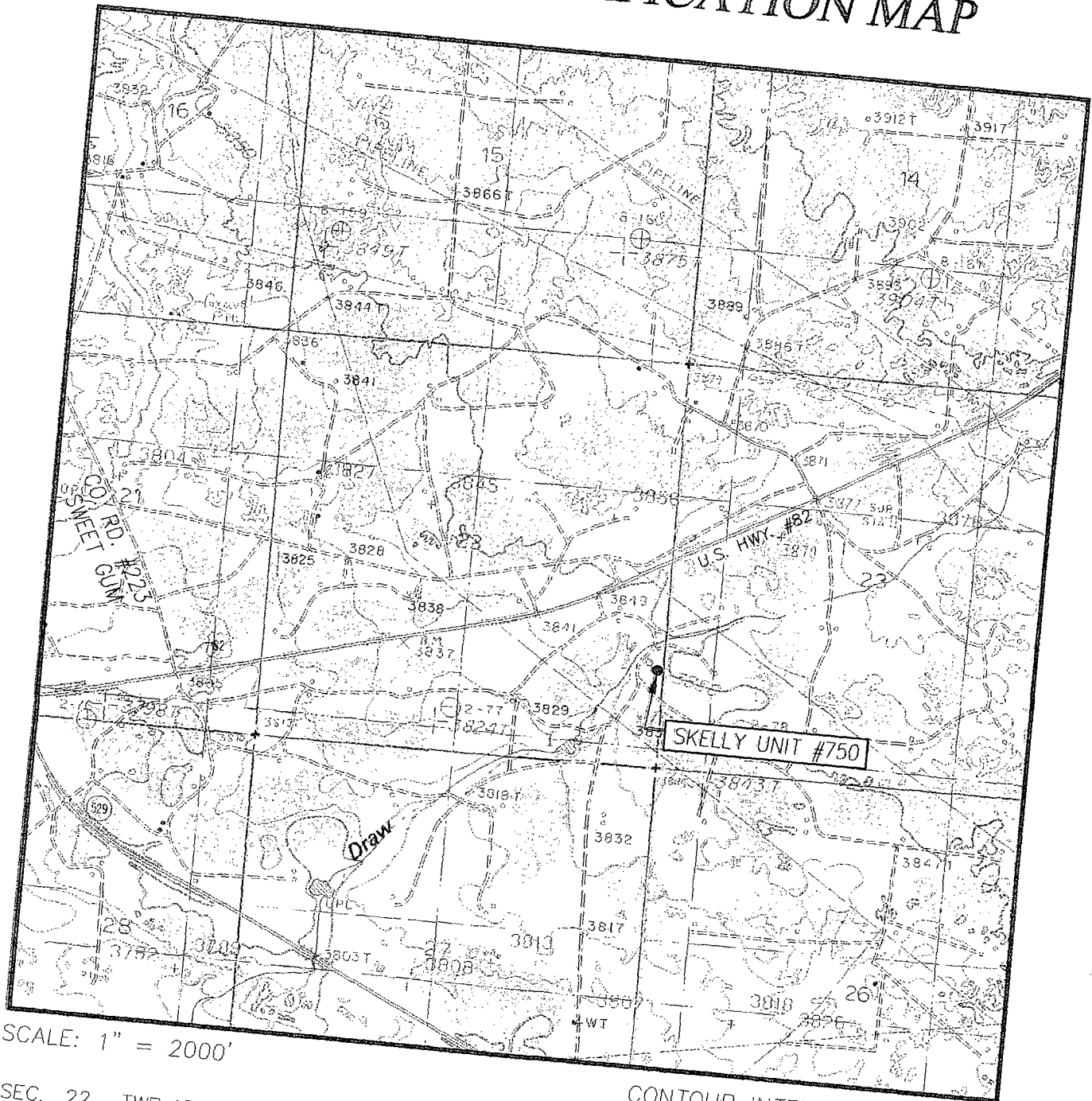
ELEVATION 3850'

OPERATOR COG OPERATING, LLC

LEASE SKELLY UNIT



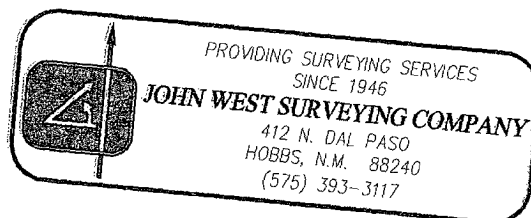
LOCATION VERIFICATION MAP

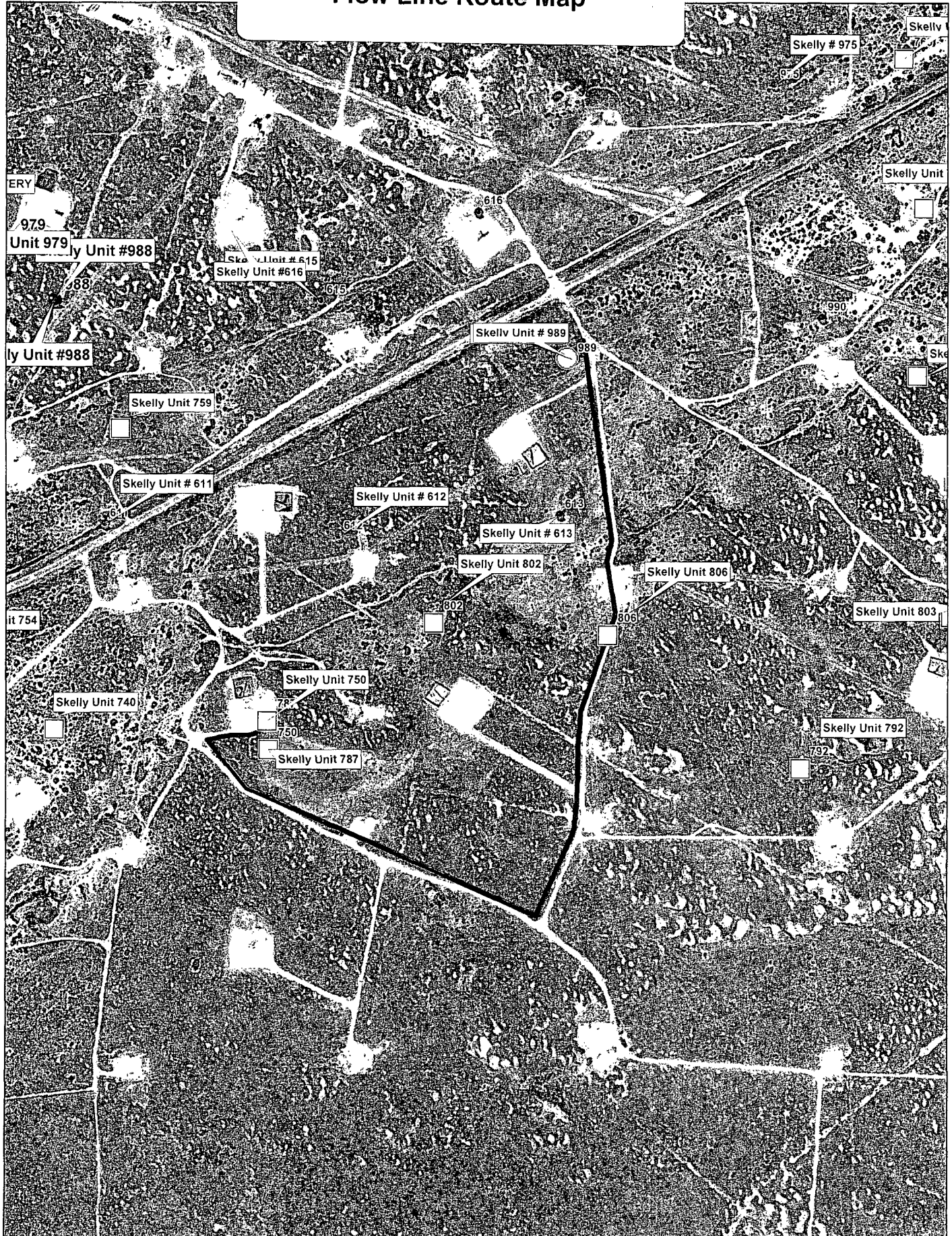


SCALE: 1" = 2000'

CONTOUR INTERVAL:
MALJAMAR, N.M. - 10'

SEC. 22 TWP. 17-S RGE. 31-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 1252' FSL & 94' FEL
 ELEVATION 3850'
 OPERATOR COG OPERATING, LLC
 LEASE SKELLY UNIT
 U.S.G.S. TOPOGRAPHIC MAP
 MALJAMAR, N.M.





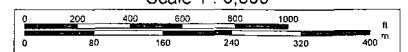
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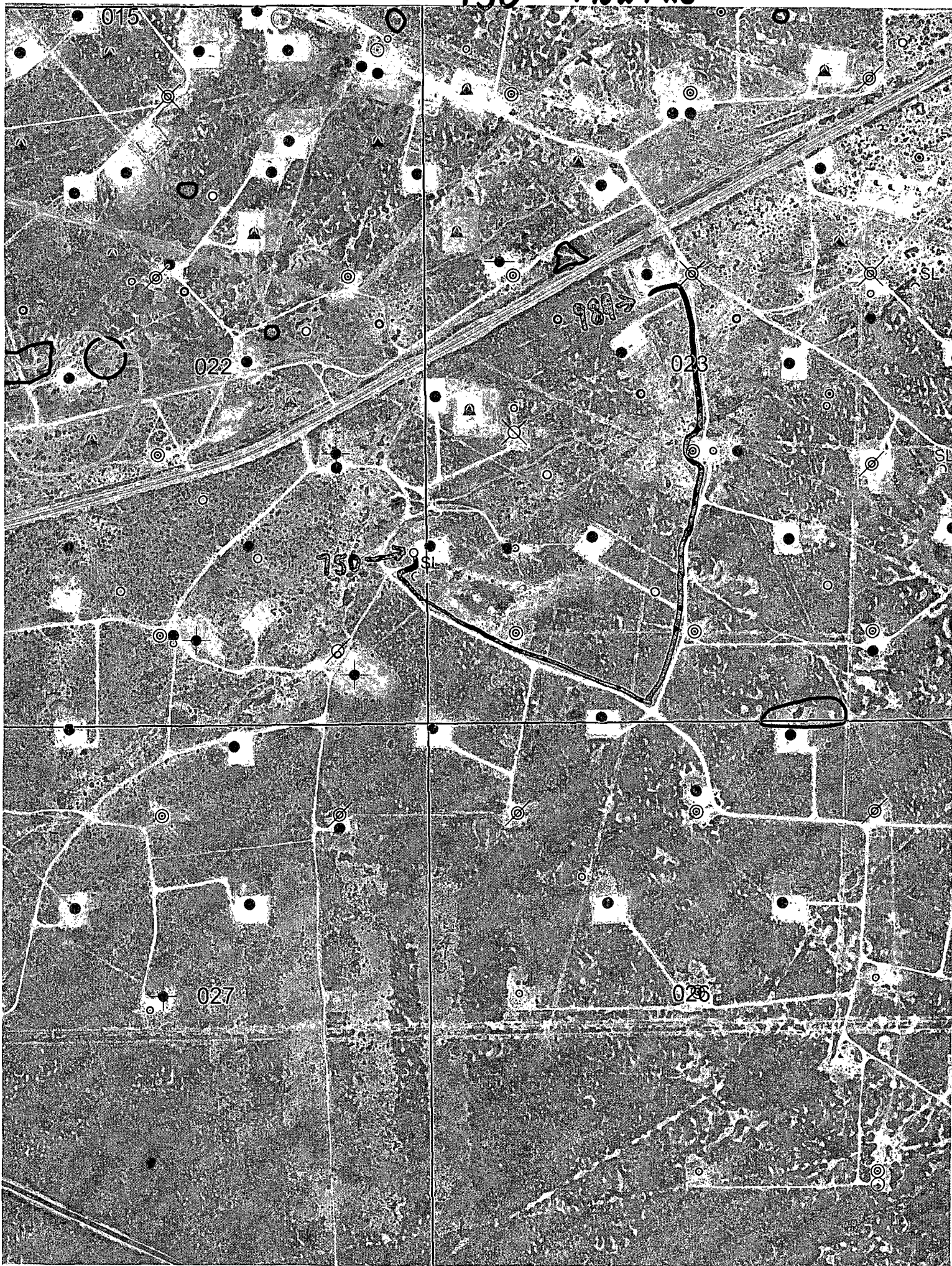
Scale 1 : 8,800

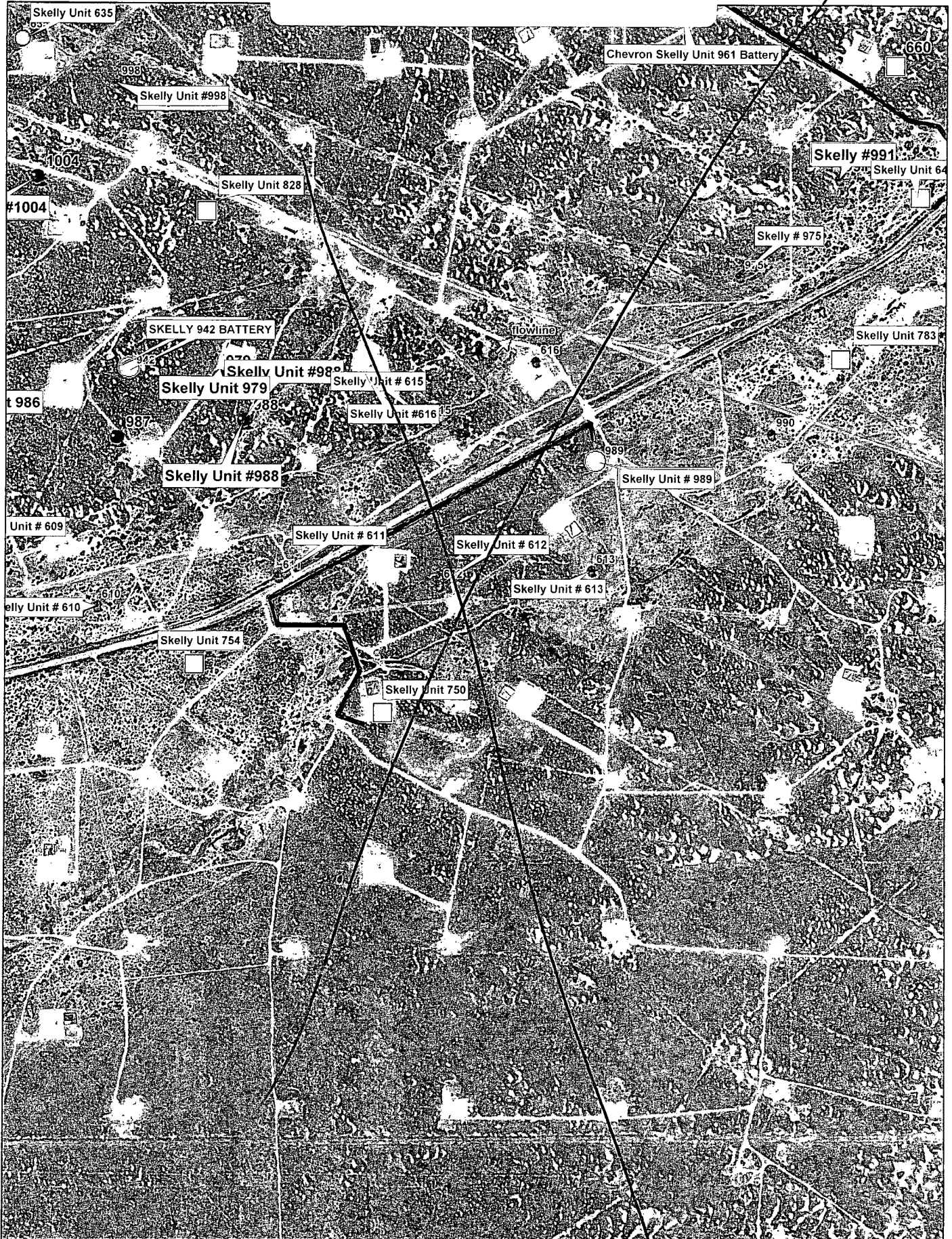


1" = 733.3 ft

Data Zoom 14-5

750 Flowline





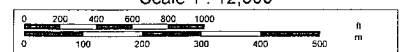
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Scale 1 : 12,800



1" = 1,066.7 ft

Data Zoom 14-0

Wells in 1 Mile Radius to Skelly Unit 750

API#	Operator	County	Legal	Lease	Well#	Date Issued	Permitted Depth	Permit TVD	Images	Doc	Total Depth	Well Type	Well Status	Target Formation
30-015-38016	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	788	7/15/2010	7,050		No	link	7,050	PO	Active	
30-015-38017	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	791	7/15/2010	7,000		No	link	7,000	PO	Active	
30-015-37884	COG OPERATING LLC	EDDY	S.22, T.17S, R.31E	SKELLY UNIT	743	5/27/2010	7,050		Yes	link	7,050	PO	Active Permit	
30-015-37885	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	783	5/20/2010	7,100		Yes	link	7,100	PO	Active Permit	
30-015-37840	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	614	4/23/2010	6,900		Yes	link	6,900	PO	Active Permit	
30-015-37476	COG OPERATING LLC	EDDY	S.14, T.17S, R.31E	SKELLY UNIT	767	12/18/2009	6,900		Yes	link	6,900	PO	Active Permit	
30-015-37446	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	795	12/11/2009	6,900		Yes	link	6,920	O	Active Permit	
30-015-37186	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	613	7/24/2009	6,500		Yes	link	6,511	O	Active Permit	
30-015-36981	COG OPERATING LLC	EDDY	S.22, T.17S, R.31E	SKELLY UNIT	628	2/27/2009	6,806	6,800	Yes	link	6,846	O	Active Permit	
30-015-36968	COG OPERATING LLC	EDDY	S.22, T.17S, R.31E	SKELLY UNIT	627	2/25/2009	6,800		Yes	link	6,815	O	Active Permit	
30-015-36963	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	631	2/25/2009	6,800		Yes	link	6,801	O	Active Permit	
30-015-36966	COG OPERATING LLC	EDDY	S.14, T.17S, R.31E	SKELLY UNIT	633	2/25/2009	6,800		Yes	link	6,798	O	Active Permit	
30-015-36965	COG OPERATING LLC	EDDY	S.14, T.17S, R.31E	SKELLY UNIT	634	2/25/2009	6,800		Yes	link	6,820	O	Active Permit	
30-015-36964	COG OPERATING LLC	EDDY	S.22, T.17S, R.31E	SKELLY UNIT	629	2/25/2009	6,800		Yes	link	6,804	O	Active Permit	
30-015-36974	COG OPERATING LLC	EDDY	S.15, T.17S, R.31E	SKELLY UNIT	632	2/25/2009	6,800		Yes	link	6,825	O	Active Permit	
30-015-36980	COG OPERATING LLC	EDDY	S.22, T.17S, R.31E	SKELLY UNIT	626	2/24/2009	6,800		Yes	link	6,840	O	Active Permit	
30-015-36962	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	630	12/12/2008	6,800		Yes	link	6,818	O	Active Permit	
30-015-36889	COG OPERATING LLC	EDDY	S.23, T.17S, R.31E	SKELLY UNIT	616	11/21/2008	6,500		Yes	link	6,810	O	Active Permit	

30-015-36763	COG OPERATING LLC	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	612	11/4/2008	6,500		Yes	link	6,708	O	Active Permit	
30-015-36886	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	609	11/4/2008	6,500		Yes	link	6,802	O	Active Permit	
30-015-36887	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	611	11/4/2008	6,500		Yes	link	6,890	O	Active Permit	
30-015-36888	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	610	11/4/2008	6,500		Yes	link	6,935	O	Active Permit	
30-015-36884	COG OPERATING LLC	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	615	11/3/2008	6,400		Yes	link	6,890	O	Active Permit	
30-015-36589	COG OPERATING LLC AGENT or COG OPERATING LLC	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	990	8/19/2008	6,700		Yes	link	6,720	U	Active Permit	
30-015-36514	COG OPERATING LLC AGENT or COG OPERATING LLC	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	983	8/4/2008	6,500		Yes	link	6,700	O	Active Permit	
30-015-36517	COG OPERATING LLC AGENT or COG OPERATING LLC	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	984	8/4/2008	6,500		Yes	link	6,720	O	Active Permit	
30-015-36515	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	982	8/4/2008	6,500		Yes	link	6,830	U	Active Permit	
30-015-36516	COG OPERATING LLC AGENT or COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	981	8/4/2008	6,500		Yes	link	6,505	O	Active Permit	
30-015-36498	COG OPERATING LLC	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	989	8/1/2008	6,600		Yes	link	6,518	O	Active Permit	
30-015-36473	COG OPERATING LLC	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	995	7/31/2008	6,450		Yes	link	6,450	PO	Active Permit	
30-015-36471	COG OPERATING LLC AGENT or COG OPERATING LLC	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	991	7/31/2008	6,700		Yes	link	6,521	O	Active Permit	
30-015-36681	COG OPERATING LLC	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	998	7/31/2008	6,600		Yes	link	6,593	O	Active Permit	

30-015-36680	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	988	7/31/2008	6,600		Yes	link	6,716	O	Active Permit	
30-015-36446	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	986	7/25/2008	6,600		Yes	link	6,625	O	Active Permit	
30-015-36497	COG OPERATING LLC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	987	7/24/2008	6,600		Yes	link	6,600	PO	Active Permit	
30-015-36445	COG OPERATING LLC	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	604	7/18/2008	6,450		Yes	link	6,512	O	Active Permit	
30-015-36356	CHEVRON USA, INC. or CHEVRON USA	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	975	5/29/2008	6,600		Yes	link	6,747	O	Active Permit	
30-015-36061	CHEVRON USA, INC. or CHEVRON USA	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	977	1/17/2008	6,500		Yes	link	6,510	O	Active Permit	
30-015-36062	CHEVRON USA, INC. or CHEVRON USA	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	978	1/17/2008	6,500		Yes	link	6,500	PO	Active Permit	
30-015-36063	CHEVRON USA, INC. or CHEVRON USA	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	980	1/17/2008	6,500		Yes	link	6,500	PO	Active Permit	
30-015-34645	CHEVRON USA, INC.	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	942	2/22/2006	5,500		No	link	6,500	O	Active Permit	
30-015-34647	CHEVRON USA, INC.	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	965	2/22/2006	3,849		No	link	5,370	O	Active Permit	
30-015-34686	CHEVRON USA, INC.	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	964	2/22/2006	5,500		No	link	5,410	PO	Active Permit	FREN PADDOCK
30-015-34646	CHEVRON USA, INC.	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	963	2/21/2006	5,500		No	link	5,500	PO	Active Permit	
30-015-34324	CHEVRON USA, INC.	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	961	9/2/2005	5,500		No	link	5,495	O	Active Permit	
30-015-34325	CHEVRON USA, INC.	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	962	9/2/2005	5,500		No	link	5,470	PO	Active Permit	
30-015-34143	MAC ENERGY CORPORATION or MAC ENERGY CORP	EDDY	S:15, T:17S, R:31E	WILLOW STATE	007	6/3/2005	6,400		No	link	5,325	PO	Active Permit	PADDOCK
30-015-32962	CHEVRON USA, INC. or CHEVRON U S	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	943	11/30/2004			No	link	5,410	O	Active	FREN PADDOCK 26770
30-015-32965	CHEVRON USA, INC. or CHEVRON U S	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	946	11/30/2004			No	link	5,430	O	Active	FREN PADDOCK 26770
30-015-32966	CHEVRON USA, INC. or CHEVRON U S	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	947	11/30/2004			No	link	5,430	O	Active	FREN PADDOCK 26770

30-015-32968	A INC CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:15, T:17S, R:31E	UNIT	949	11/30/2004			No	link	5,350	O	Active	FREN PADDOCK
30-015-32962	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	943	8/21/2003	5,500		No	link	5,410	O	Active	FREN PADDOCK
30-015-32963	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	944	8/21/2003	5,500		No	link	5,450	O	Active	FREN PADDOCK
30-015-32964	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	945	8/21/2003	5,500		No	link	5,483	O	Active	FREN PADDOCK
30-015-32965	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	946	8/21/2003	5,500		No	link	5,430	O	Active	FREN PADDOCK
30-015-32966	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	947	8/21/2003	5,500		No	link	5,430	O	Active	FREN PADDOCK
30-015-32968	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	949	8/21/2003	5,500		No	link	5,350	O	Active	FREN PADDOCK
30-015-32963	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	944	7/31/2003			No	link	5,450	O	Active	FREN PADDOCK
30-015-32964	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	945	7/31/2003			No	link	5,483	O	Active	FREN PADDOCK
30-015-32600	CHEVRON USA, INC. or CHEVRON USA INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	941	1/16/2003	5,500		No	link	5,478	O	Active	FREN PADDOCK
30-015-32600	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	941	12/31/2002			No	link	5,478	O	Active	FREN PADDOCK
30-015-29419	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	903	5/1/2002			No	link	8,000	O	Pumping	ABO
30-015-29461	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	904	5/1/2002			No	link	9,200	O	Shut-in	ABO
30-015-29419	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	903	4/30/2002			No	link	8,000	O	Pumping	ABO P&A 11-15-04
30-015-29461	CHEVRON USA, INC. or CHEVRON U S A INC	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	904	4/30/2002			No	link	9,200	O	Shut-in	ABO P&A 110404
30-015-20658	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	007	1/13/1998	0		No	link	4,000	I	Injection Well	

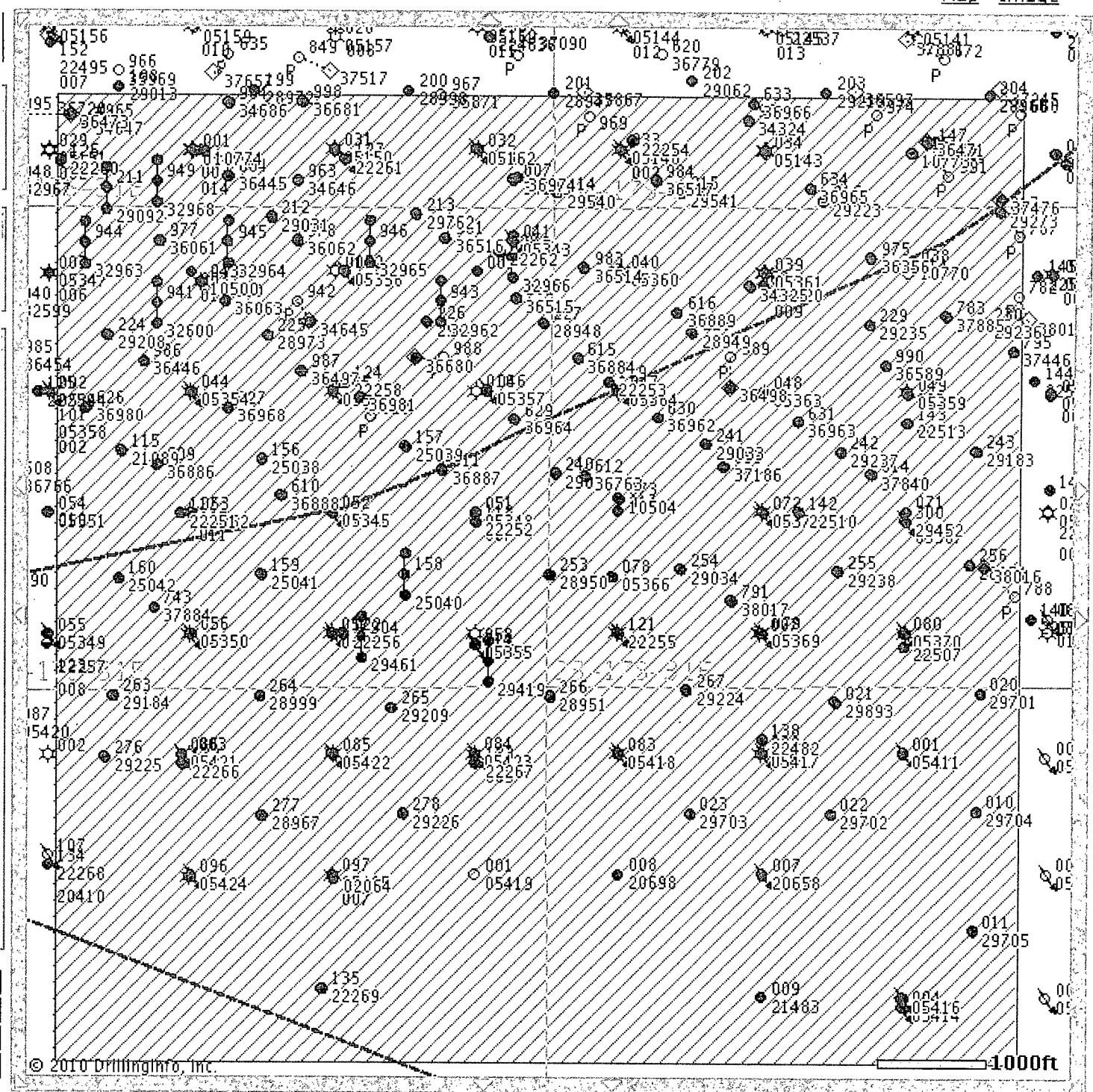
30-015-05152	WISER OIL CO (THE)	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	001	10/16/1997	0	No	link	3,692	G	Active	
30-015-22261	WISER OIL CO (THE)	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	127	10/16/1997	0	No	link	2,503	I	Injection Well	
30-015-29893	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	021	10/16/1997		No	link	4,100	O	Pumping	SAN ANDRES
30-015-05414	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	004	9/25/1997	0	No	link	0	I	Injection Well	
30-015-29702	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	022	9/1/1997		No	link	4,000	O	Shut-in	SAN ANDRES
30-015-29703	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	023	9/1/1997		No	link	4,050	O	Pumping	SAN ANDRES
30-015-22255	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	121	8/22/1997	0	No	link	2,600	I	Injection Well	
30-015-29701	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	020	8/22/1997		No	link	4,100	O	Pumping	SAN ANDRES
30-015-29762	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	213	7/29/1997		No	link	3,950	O	Pumping	SAN ANDRES
30-015-05417	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	SKELLY UNIT	082	7/24/1997	0	No	link	3,876	I	Injection Well	
30-015-29704	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	010	6/30/1997		No	link	4,200	O	Pumping	SAN ANDRES
30-015-29705	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	011	6/30/1997		No	link	4,100	O	Pumping	SAN ANDRES
30-015-05140	WISER OIL CO (THE)	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	033	6/2/1997	0	No	link	3,840	I	Injection Well	
30-015-05411	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	001	5/27/1997	0	No	link	0	I	Injection Well	
30-015-05416	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	LEA D	006	5/1/1997	0	No	link	0	I	Injection Well	
30-015-05343	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	041	4/24/1997	0	No	link	3,818	I	Injection Well	
30-015-29540	WISER OIL CO (THE)	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	214	4/24/1997		No	link	3,950	O	Active	SAN ANDRES
30-015-29541	WISER OIL CO (THE)	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	215	4/24/1997		No	link	4,000	O	Pumping	
30-015-05418	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	SKELLY UNIT	083	4/17/1997	0	No	link	0	I	Injection Well	
30-015-10500	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	043	4/1/1997	0	No	link	0	G	Active	
30-015-05348	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	051	4/10/1997		No	link	12,204	O	Shut-in	
30-015-10773	WISER OIL CO (THE)	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	035	4/4/1997	0	No	link	3,944	I	Pumping	
30-015-05359	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	049	3/31/1997	0	No	link	3,850	O	Active	
30-015-05361	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	039	3/28/1997	0	No	link	3,841	G	Active	
30-015-05364	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	047	3/28/1997	0	No	link	3,822	I	Injection Well	
30-015-05421	WISER OIL CO (THE)	EDDY	S:27, T:17S, R:31E	SKELLY UNIT	086	3/28/1997	0	No	link	0	I	Injection Well	
30-015-05423	WISER OIL CO (THE)	EDDY	S:27, T:17S, R:31E	SKELLY UNIT	084	3/20/1997	0	No	link	0	I	Injection Well	
30-015-05372	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	072	3/19/1997	0	No	link	3,000	I	Injection Well	

30-015-05370	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	080	3/18/1997	0	No	link	3,884	1	Injection Well	
30-015-29452	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	300	3/10/1997		No	link	4,050	1	Injection Well	SAN ANDRES
30-015-05353	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	057	3/8/1997	0	No	link	0	1	Injection Well	
30-015-05346	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	045	2/7/1997	0	No	link	3,804	1	Injection Well	
30-015-29273	WISER OIL CO (THE)	EDDY	S-14, T-17S, R-31E	SKELLY UNIT	217	11/4/1996		No	link	4,120	0	Pumping	SAN ANDRES
30-015-29235	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	228	10/23/1996		No	link	4,025	0	Pumping	SAN ANDRES
30-015-29236	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	230	10/23/1996		No	link	4,100	0	Active	SAN ANDRES
30-015-29237	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	242	10/23/1996		No	link	4,025	0	Temporarily Abandoned	SAN ANDRES
30-015-29238	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	255	10/23/1996		No	link	4,100	0	Pumping	SAN ANDRES
30-015-29224	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	267	10/15/1996		No	link	3,950	0	Pumping	SAN ANDRES
30-015-29223	WISER OIL CO (THE)	EDDY	S-14, T-17S, R-31E	SKELLY UNIT	216	10/11/1996		No	link	4,100	0	Pumping	SAN ANDRES
30-015-29225	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	276	10/11/1996		No	link	3,950	0	Pumping	SAN ANDRES
30-015-29226	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	278	10/11/1996		No	link	4,100	0	Active	SAN ANDRES
30-015-29208	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	224	10/4/1996		No	link	4,000	0	Shut-in	SAN ANDRES
30-015-29209	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	265	10/4/1996		No	link	3,950	0	Active	SAN ANDRES
30-015-29182	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	226	9/24/1996		No	link	4,000	0	Pumping	SAN ANDRES
30-015-29183	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	243	9/24/1996		No	link	4,050	0	Pumping	SAN ANDRES
30-015-29184	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	263	9/24/1996		No	link	3,900	0	Pumping	SAN ANDRES
30-015-29092	WISER OIL CO (THE)	EDDY	S-15, T-17S, R-31E	SKELLY UNIT	211	8/7/1996	4,800	No	link	4,000	0	Pumping	SAN ANDRES
30-015-29092	WISER OIL CO (THE)	EDDY	S-15, T-17S, R-31E	SKELLY UNIT	211	7/31/1996		No	link	4,000	0	Pumping	SAN ANDRES
30-015-29031	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	212	7/2/1996		No	link	4,060	0	Pumping	SAN ANDRES
30-015-29032	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	240	7/2/1996		No	link	4,050	0	Active	SAN ANDRES
30-015-29033	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	241	7/2/1996		No	link	4,000	0	Pumping	SAN ANDRES
30-015-29034	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	254	7/2/1996		No	link	4,050	0	Pumping	SAN ANDRES
30-015-28999	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	264	6/5/1996		No	link	3,900	0	Shut-in	GRAYBURG JACKSON
30-015-28973	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	225	5/9/1996		No	link	4,000	0	Pumping	GRAYBURG JACKSON
30-015-28974	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	256	5/9/1996		No	link	4,050	0	Pumping	GRAYBURG JACKSON
30-015-28967	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	277	5/2/1996		No	link	4,100	0	Pumping	GRAYBURG-JACKSON

30-015-28948	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	227	4/24/1996			No	link	3,950	O	Pumping	SAN ANDRES
30-015-28949	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	228	4/24/1996			No	link	4,005	O	Active	SAN ANDRES
30-015-28951	WISER OIL CO (THE)	EDDY	S:26, T:17S, R:31E	SKELLY UNIT	266	4/24/1996			No	link	4,100	O	Pumping	SAN ANDRES
30-015-28950	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	253	4/23/1996			No	link	4,000	O	Pumping	SAN ANDRES
30-015-05143	WISER OIL CO (THE)	EDDY	S:14, T:17S, R:31E	SKELLY UNIT	034	9/1/1995	0		No	link	0	G	Flowing	
30-015-05150	WISER OIL CO (THE)	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	031	9/1/1995	0		No	link	3,800	O	Shut-in	
30-015-05162	WISER OIL CO (THE)	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	032	9/1/1995	0		No	link	0	I	Injection Well	
30-015-05345	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	052	9/1/1995	0		No	link	2,170	I	Injection Well	
30-015-05350	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	056	9/1/1995	0		No	link	3,709	I	Injection Well	
30-015-05352	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	053	9/1/1995	0		No	link	3,810	G	Active	
30-015-05354	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	044	9/1/1995	0		No	link	3,804	I	Shut-in	
30-015-05355	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	058	9/1/1995	0		No	link	0	I	Injection Well	
30-015-05356	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	042	9/1/1995			No	link	2,165	I	Injection Well	
30-015-05357	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	046	9/1/1995	0		No	link	3,820	I	Injection Well	
30-015-05360	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	040	9/1/1995	0		No	link	3,827	G	Flowing	
30-015-05363	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	048	9/1/1995	0		No	link	3,857	I	Pumping	
30-015-05366	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	078	9/1/1995			No	link	3,855	O	Active	
30-015-05369	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	079	9/1/1995	0		No	link	3,894	I	Injection Well	
30-015-05422	WISER OIL CO (THE)	EDDY	S:27, T:17S, R:31E	SKELLY UNIT	085	9/1/1995	0		No	link	3,803	I	Injection Well	
30-015-05424	WISER OIL CO (THE)	EDDY	S:27, T:17S, R:31E	SKELLY UNIT	096	9/1/1995	0		No	link	0	I	Injection Well	
30-015-05425	WISER OIL CO (THE)	EDDY	S:27, T:17S, R:31E	SKELLY UNIT	097	9/1/1995	0		No	link	0	O	Shut-in	PLUG & ABANDON
30-015-10504	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	073	9/1/1995	0		No	link	0	O	Active	
30-015-10770	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	038	9/1/1995			No	link	3,910	PI	Injection Well	
30-015-10774	WISER OIL CO (THE)	EDDY	S:15, T:17S, R:31E	SKELLY UNIT	030	9/1/1995	0		No	link	3,906	G	Active	PLUGGED & ABANDON
30-015-21089	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	115	9/1/1995			No	link	3,910	O	Temporarily Abandoned	
30-015-22251	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	117	9/1/1995	0		No	link	0	O	Pumping	
30-015-22252	WISER OIL CO (THE)	EDDY	S:22, T:17S, R:31E	SKELLY UNIT	118	9/1/1995			No	link	2,580	O	Temporarily Abandoned	
30-015-22253	WISER OIL CO (THE)	EDDY	S:23, T:17S, R:31E	SKELLY UNIT	119	9/1/1995			No	link		PO	Temporarily Abandoned	

30-015-22264	WISER OIL CO (THE)	EDDY	S-14, T-17S, R-31E	SKELLY UNIT	120	9/1/1995	0		No	link	2,600	O	Pumping	
30-015-22266	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	122	9/1/1995	0		No	link	2,600	O	Pumping	
30-015-22268	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	124	9/1/1995	0		No	link	11,065	O	Active	
30-015-22260	WISER OIL CO (THE)	EDDY	S-15, T-17S, R-31E	SKELLY UNIT	126	9/1/1995	0		No	link	2,530	O	Active	
30-015-22262	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	128	9/1/1995	0		No	link	2,550	O	Active	
30-015-22266	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	132	9/1/1995	0		No	link	2,600	O	Pumping	
30-015-22267	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	133	9/1/1995	0		No	link	2,700	O	Pumping	
30-015-22269	WISER OIL CO (THE)	EDDY	S-27, T-17S, R-31E	SKELLY UNIT	135	9/1/1995	0		No	link	2,740	O	Pumping	
30-015-22482	WISER OIL CO (THE)	EDDY	S-26, T-17S, R-31E	SKELLY UNIT	138	9/1/1995	0		No	link	3,980	O	Active	
30-015-22507	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	139	9/1/1995	0		No	link	2,680	O	Pumping	
30-015-22510	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	142	9/1/1995	0		No	link	2,650	O	Pumping	
30-015-22513	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	143	9/1/1995	0		No	link	2,650	O	Temporarily Abandoned	
30-015-22520	WISER OIL CO (THE)	EDDY	S-23, T-17S, R-31E	SKELLY UNIT	146	9/1/1995	0		No	link	2,646	O	Pumping	
30-015-25038	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	156	9/1/1995	0		No	link	3,685	O	Active	
30-015-25039	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	157	9/1/1995			No	link	3,705	PO	Active	
30-015-25041	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	159	9/1/1995			No	link	3,962	PO	Active	
30-015-25042	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	160	9/1/1995			No	link	3,900	PO	Active	
30-015-25040	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	158	8/31/1995			No	link	4,049	PO	Temporarily Abandoned	
30-015-25040	WISER OIL CO (THE)	EDDY	S-22, T-17S, R-31E	SKELLY UNIT	158	10/3/1984	3,900		No	link	4,049	PO	Temporarily Abandoned	7 RIVERS, GRAYBURG
30-015-02064	STEVENSON OPERATING CORPORATION OF HANAGAN PETROLEUM CORP	EDDY	S-28, T-18S, R-28E	PRE- ONGARD WELL	004	1/1/1970			No	link		O	Active	MOREXCO /TWIN LAKES

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MASTER DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface
Top of Salt	560'
Base of Salt	1150'
Yates	1770'
Seven Rivers	2100'
Queen	2715'
Grayburg	3100'
San Andres	3450'
Glorietta	4950'
Yeso Group	4995'

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas

Water Sand	150'	Fresh Water
Grayburg	3100'	Oil/Gas
San Andres	3450'	Oil/Gas
Glorieta	4950'	Oil/Gas
Yeso Group	4995'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to ~~450'~~^{580'} and circulating cement back to the surface will protect the surface fresh water sand. The Salt Section will be protected by setting 8 5/8" casing to 1800' and circulating cement, in a single or multi-stage job and/or with an ECP, back to the surface. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them. This will be achieved by cementing, with a single or multi-stage job, the 5 1/2" production casing back 200' into the intermediate casing, to be run at TD. (If wellbore conditions arise that require immediate action and/or a change to this program, COG Operating LLC personnel will always react to protect the wellbore and/or the environment.)

See Cont

See Cont

4. Casing Program

See COA

Hole Size	Interval	OD Casing	Weight	Grade	Jt., Condition	Jt.	burst/collapse/tension
17 1/2"	0-450' 580	13 3/8"	48#	H-40orJ-55	New	ST&C	8.71/3.724/14.91
11" or 12 1/4"	0-1800'	8 5/8"	24or32#	J-55	New	ST&C	2.91/1.46/5.65
7 7/8"	0-T.D.	5 1/2"	15.5 or 17#	J-55orL80	New	LT&C	1.71/1.574/2.20

5. Cement Program

13 3/8" Surface Casing:

Class C, 500 sx, yield 1.32, back to surface

8 5/8" Intermediate Casing:

11" Hole:

Single Stage: 50:50:10, 350 sx lead, yield-2.45 + Class C, 200 sx tail, yield-1.32, back to surface.

Multi-Stage: Stage 1: Class C, 350 sx, yield-1.32. Stage 2: 50:50:10, 200 sx, yield-2.45, back to surface. Multi stage tool to be set at approximately, depending on hole conditions, ~~450'~~ See COA

5 1/2" Production Casing:

Single Stage: 35:65:6, 500 sx Lead, yield-2.05 + 50:50:2, 400 sx Tail, yield-1.37, to 200' minimum tie back to intermediate casing.

Multi-Stage: Stage 1: 50:50:2, 400 sx, yield - 1.37; Stage 2: 35:65:6, 500 sx, yield - 2.05, to 200' minimum tie back to intermediate casing. Multi stage tool to be set at approximately, depending on hole conditions, ~~TD - 2000'~~ See COA

6. Minimum Specifications for Pressure Control

The blowout preventer equipment (BOP) shown in Exhibit #9 will consist of a double ram-type (2000 psi WP) preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on the bottom. The BOP will be nipped up on the 13 3/8" surface casing with BOP equipment and tested ~~together to 1000 psi by rig pump in one test.~~ *See COA* The BOP will then be nipped up on the 8 5/8" intermediate casing and tested by a third party to 2000 psi and used continuously until total depth is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of the intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve, choke lines and a choke manifold (Exhibit #11) with a 2000 psi WP rating.

7. Types and Characteristics of the Proposed Mud System

The well will be drilled to TD with a combination of brine, cut brine and polymer mud system. The applicable depths and properties of this system are as follows:

See COA

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-450' <i>580'</i>	Fresh Water	8.5	28	N.C.
450-1800'	Brine	10	30	N.C.
1800'-TD	Cut Brine	8.7-9.1	29	N.C.

Sufficient mud materials will be kept at the well site to maintain mud properties and meet minimum lost circulation and weight increase requirements at all times.

8. Auxiliary Well Control and Monitoring Equipment

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

9. Logging, Testing and Coring Program

Get
COA

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 8 5/8" casing shoe.
- B. Drill Stem test is not anticipated.
- C. No conventional coring is anticipated.
- D. Further testing procedures will be determined after the 5 1/2" production casing has been cemented at TD, based on drill shows and log evaluation.

10. Abnormal Conditions, Pressure, Temperatures and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and the estimated maximum bottom hold pressure is 2300 psig. Measurable gas volumes or Hydrogen Sulfide levels have not been encountered during drilling operations in this area, although a Hydrogen Sulfide Drilling Operation Plan is attached to this program. No major loss of circulation zones has been reported in offsetting wells.

11. Anticipated Starting Date and Duration of Operations

Road and location work will not begin until approval has been received from the BLM. As this is a Master Drilling plan, please refer to the Form 3160-3 for the anticipated start date. Once commenced, drilling operations should be finished in approximately 12 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.



COG Operating LLC

Eddy County, NM (NAN27 NME)

Skelly Unit #750

Skelly Unit #750

OH

Plan: Plan #1 - 7-7/8" Hole

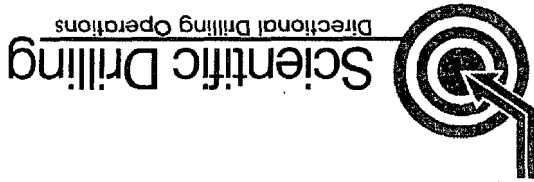
SHL = 1252' FSL & 94' FEL

BHL = 1660' FSL & 340' FEL

Top of Paddock = 321' North of Surface & 196' West of Surface @ 4800' TVD

Standard Planning Report

09 September, 2010





Scientific Drilling
Planning Report



Database: EDM-Julio
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Skelly Unit #750
Well: Skelly Unit #750
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

Local Coordinate Reference:
TVD Reference: MD Reference:
North Reference: Survey Calculation Method:
Grid: Minimum Curvature

Site Skelly Unit #750

GL Elev @ 3850.00usft

GL Elev @ 3850.00usft

Mean Sea Level

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

Site: Skelly Unit #750
From: Map
Position: Northing: 660,975.60 usft
East: 648,900.70 usft
Longitude: 103° 50' 55.178 W
Latitude: 32° 48' 58.218 N
Grid Convergence: 0.26°

Well: Skelly Unit #750
Well Position: +N-S: 0.00 usft
+E-W: 0.00 usft
Northing: 660,975.60 usft
East: 648,900.70 usft
Longitude: 103° 50' 55.178 W
Latitude: 32° 48' 58.218 N
Ground Level: 3,850.00 usft

Wellbore: OH
Magnetics: Model Name: BGGM2010
Sample Date: 2010/09/09
Declination: 7.91
Dip Angle: 60.72
Field Strength: 49.055

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

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	0.00
1,950.00	0.00	0.00	1,950.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,351.41	8.03	328.58	2,350.10	23.96	-14.63	2.00	2.00	0.00	0.00	328.58
4,666.98	8.03	328.58	4,642.97	299.95	-183.20	0.00	0.00	0.00	0.00	0.00
4,925.26	2.86	328.58	4,900.00	320.86	-195.97	2.00	-2.00	0.00	0.00	-180.00 TG1-SU #750
6,927.76	2.86	328.58	6,900.00	406.20	-248.10	0.00	0.00	0.00	0.00	0.00 PBHL-SU #750



Scientific Drilling
Planning Report



Database: EDM-Julio
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Skelly Unit #750
Well: Skelly Unit #750
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Grid
Site Skelly Unit #750
GL Elev @ 3850.00usft
GL Elev @ 3850.00usft
Minimum Curvature

Planned Survey									
Measured	Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build
(usft)	(°)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(%/100usft)	(%/100usft)
8-5/8" Casing	1,950.00	0.00	0.00	1,950.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00°/100'	2,000.00	1.00	328.58	2,000.00	0.37	-0.23	0.44	2.00	2.00
2,100.00	3.00	328.58	2,099.93	3.35	-2.05	3.93	0.44	2.00	2.00
2,200.00	5.00	328.58	2,199.68	9.30	-5.68	10.90	0.44	2.00	2.00
2,300.00	7.00	328.58	2,299.13	18.22	-11.13	21.35	0.44	2.00	2.00
2,351.41	8.03	328.58	2,350.10	23.96	-14.63	28.08	0.44	2.00	2.00
2,400.00	8.03	328.58	2,398.21	29.75	-18.17	34.86	0.44	2.00	2.00
2,500.00	8.03	328.58	2,497.23	41.67	-25.45	48.83	0.44	2.00	2.00
2,600.00	8.03	328.58	2,596.25	53.59	-32.73	62.79	0.44	2.00	2.00
2,700.00	8.03	328.58	2,695.27	65.51	-40.01	76.76	0.44	2.00	2.00
2,800.00	8.03	328.58	2,794.29	77.43	-47.29	90.73	0.44	2.00	2.00
2,900.00	8.03	328.58	2,893.31	89.35	-54.57	104.69	0.44	2.00	2.00
3,000.00	8.03	328.58	2,992.33	101.26	-61.85	118.66	0.44	2.00	2.00
3,100.00	8.03	328.58	3,091.35	113.18	-69.13	132.62	0.44	2.00	2.00
3,200.00	8.03	328.58	3,190.37	125.10	-76.41	146.59	0.44	2.00	2.00
3,300.00	8.03	328.58	3,289.39	137.02	-83.69	160.56	0.44	2.00	2.00
3,400.00	8.03	328.58	3,388.41	148.94	-90.97	174.52	0.44	2.00	2.00
3,500.00	8.03	328.58	3,487.43	160.86	-98.25	188.49	0.44	2.00	2.00
3,600.00	8.03	328.58	3,586.45	172.78	-105.53	202.45	0.44	2.00	2.00
3,700.00	8.03	328.58	3,685.47	184.69	-112.81	216.42	0.44	2.00	2.00
3,800.00	8.03	328.58	3,784.49	196.61	-120.09	230.39	0.44	2.00	2.00
3,900.00	8.03	328.58	3,883.51	208.53	-127.37	244.35	0.44	2.00	2.00
4,000.00	8.03	328.58	3,982.53	220.45	-134.65	258.32	0.44	2.00	2.00
4,100.00	8.03	328.58	4,081.55	232.37	-141.93	272.28	0.44	2.00	2.00
4,200.00	8.03	328.58	4,180.57	244.29	-149.21	286.25	0.44	2.00	2.00
4,300.00	8.03	328.58	4,279.59	256.21	-156.49	300.22	0.44	2.00	2.00
4,400.00	8.03	328.58	4,378.61	268.13	-163.77	314.18	0.44	2.00	2.00
4,500.00	8.03	328.58	4,477.63	280.04	-171.05	328.15	0.44	2.00	2.00
4,600.00	8.03	328.58	4,576.65	291.96	-178.33	342.11	0.44	2.00	2.00
4,666.98	8.03	328.58	4,576.65	291.96	-178.33	342.11	0.44	2.00	2.00
Start DLS 2.00°/100'	4,700.00	7.37	328.58	4,675.70	303.72	-185.51	355.89	2.00	2.00
4,800.00	5.37	328.58	4,775.07	313.18	-191.29	366.98	2.00	2.00	2.00
4,900.00	3.37	328.58	4,874.78	319.68	-195.26	374.60	2.00	2.00	2.00
4,925.26	2.86	328.58	4,900.00	320.86	-195.97	375.97	2.00	2.00	2.00
EOC hold 2.86° - Top of Padlock - TG1-SU #750	5,000.00	2.86	328.58	4,974.65	324.04	-197.92	379.70	0.00	0.00
5,100.00	2.86	328.58	5,074.52	328.30	-200.52	384.70	0.00	0.00	0.00
5,200.00	2.86	328.58	5,174.40	332.56	-203.12	389.69	0.00	0.00	0.00
5,300.00	2.86	328.58	5,274.27	336.83	-205.73	394.68	0.00	0.00	0.00
5,400.00	2.86	328.58	5,374.15	341.09	-208.33	399.68	0.00	0.00	0.00
5,500.00	2.86	328.58	5,474.02	345.35	-210.93	404.67	0.00	0.00	0.00
5,600.00	2.86	328.58	5,573.90	349.61	-213.54	409.67	0.00	0.00	0.00
5,700.00	2.86	328.58	5,673.77	353.87	-216.14	414.66	0.00	0.00	0.00
5,800.00	2.86	328.58	5,773.65	358.14	-218.74	419.65	0.00	0.00	0.00
5,900.00	2.86	328.58	5,873.53	362.40	-221.35	424.65	0.00	0.00	0.00
6,000.00	2.86	328.58	5,973.40	366.66	-223.95	429.64	0.00	0.00	0.00

Planned Survey											
Measured	Depth	Inclination	Azimuth	Vertical	Depth	+N/S	+E/W	Vertical	Dogleg	Build	Turn
(usft)	(°)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(%/100usft)	(%/100usft)	(%/100usft)
PBHL-SU #750											
6,100.00	2.86	328.58	6,073.28	370.92	-226.55	434.64	439.63	434.64	0.00	0.00	0.00
6,200.00	2.86	328.58	6,173.15	375.18	-229.16	439.63	444.62	439.63	0.00	0.00	0.00
6,300.00	2.86	328.58	6,273.03	379.45	-231.76	444.62	449.62	444.62	0.00	0.00	0.00
6,400.00	2.86	328.58	6,372.90	383.71	-234.36	449.62	454.61	449.62	0.00	0.00	0.00
6,500.00	2.86	328.58	6,472.78	387.97	-236.97	454.61	459.61	454.61	0.00	0.00	0.00
6,600.00	2.86	328.58	6,572.65	392.23	-239.57	459.61	464.60	459.61	0.00	0.00	0.00
6,700.00	2.86	328.58	6,672.53	396.49	-242.17	464.60	469.59	464.60	0.00	0.00	0.00
6,800.00	2.86	328.58	6,772.40	400.76	-244.77	469.59	474.59	469.59	0.00	0.00	0.00
6,900.00	2.86	328.58	6,872.28	405.02	-247.38	474.59	479.58	474.59	0.00	0.00	0.00
6,927.76	2.86	328.58	6,900.00	406.20	-248.10	475.97		475.97	0.00	0.00	0.00
Design Targets											
Target Name	- hit/miss target	- Shape	Dip Angle	Dip Dir.	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)
East HL-SU #750											
- plan misses target center by 462.24usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)		- Rectangle (sides W0.00 H200.00 D0.00)	0.00	0.00	0.00	396.20	-238.10	661,371.80	648,662.60	32° 49' 2.149 N	103° 50' 57.946 W
South HL-SU #750											
- plan misses target center by 462.24usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)		- Rectangle (sides W200.00 H0.00 D0.00)	0.00	0.00	0.00	396.20	-238.10	661,371.80	648,662.60	32° 49' 2.149 N	103° 50' 57.946 W
TG1-SU #750											
- plan hits target center		- Point	0.00	0.00	4,900.00	320.86	-195.97	661,296.46	648,704.73	32° 49' 1.401 N	103° 50' 57.457 W
PBHL-SU #750											
- plan hits target center		- Circle (radius 10.00)	0.00	0.00	6,900.00	406.20	-248.10	661,381.80	648,652.60	32° 49' 2.248 N	103° 50' 58.063 W
Casing Points											
Measured	Depth	Vertical	Depth	Name	Casing	Diameter	Hole	Dip	Dip Direction	Dip	
(usft)	(usft)	(usft)	(usft)			(")	(")	(°)	(°)	(°)	
1,850.00	1,850.00	8-5/8" Casing	1,850.00			8-5/8	12-1/4			0.00	
Formations											
Measured	Depth	Vertical	Depth	Name	Lithology	Dip	Dip Direction	Dip			
(usft)	(usft)	(usft)	(usft)			(°)	(°)	(°)			
4,925.26	4,900.00	Top of Paddock	4,900.00								

Database: EDM-Julio

Company: COG Operating LLC

Project: Eddy County, NM (NAN27 NME)

Site: Skelly Unit #750

Well: Skelly Unit #750

Wellbore: OH

Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Minimum Curvature

Site Skelly Unit #750

GL Elev @ 3850.00usft

GL Elev @ 3850.00usft

Grid

Scientific Drilling

Planning Report

CONCHO

Scientific Drilling Operations

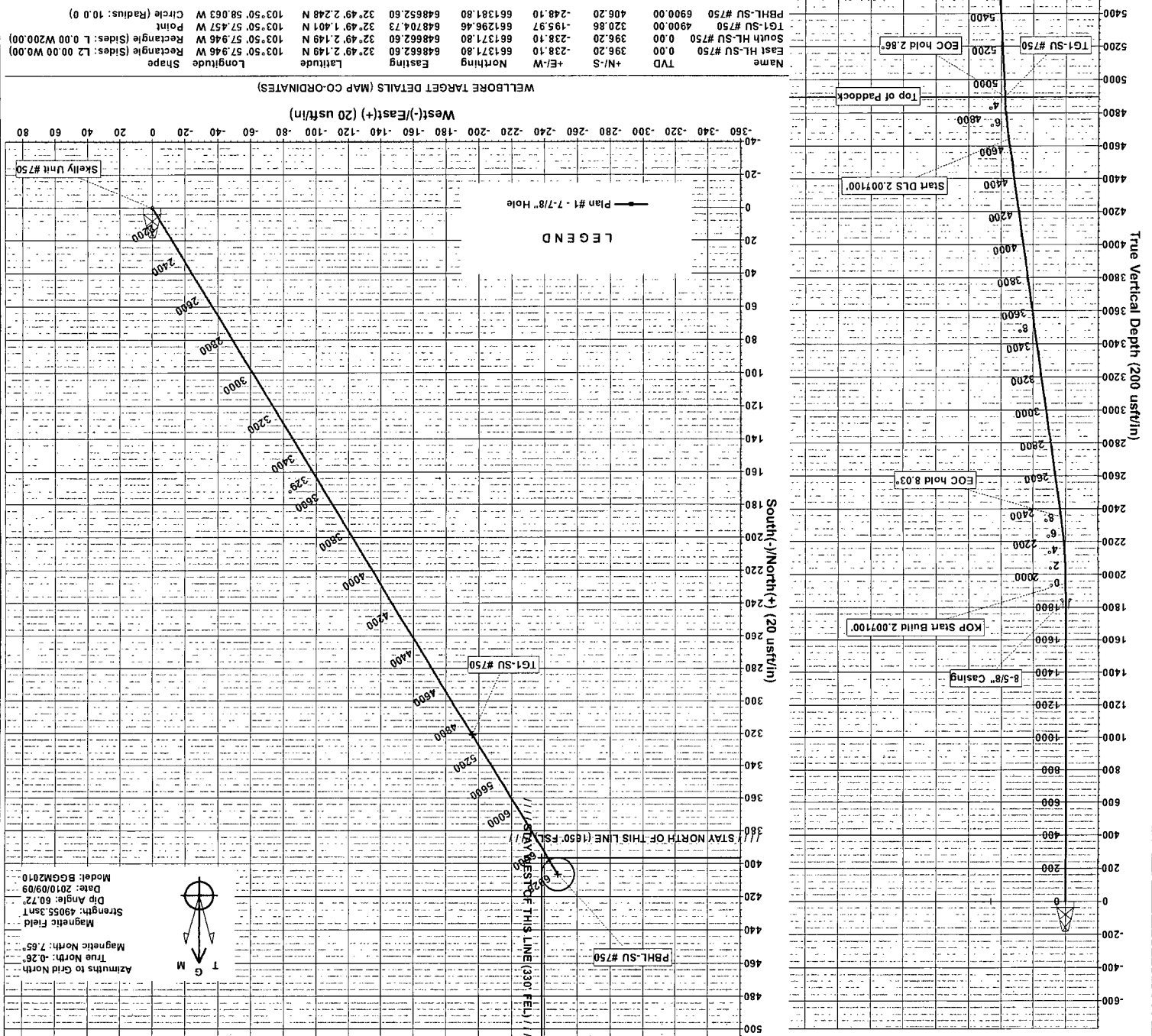
Database: EDM-Julio
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Skelly Unit #750
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Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Grid
GL Elev @ 3850.00usft
GL Elev @ 3850.00usft
Minimum Curvature

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,950.00	1,950.00	0.00	0.00	KOP Start Build 2.00°/100'	
2,351.41	2,350.10	23.96	-14.63	EOC hold 8.03°	
4,666.98	4,642.97	299.95	-183.20	Start DLS 2.00°/100'	
4,925.26	4,900.00	320.86	-195.97	EOC hold 2.86°	

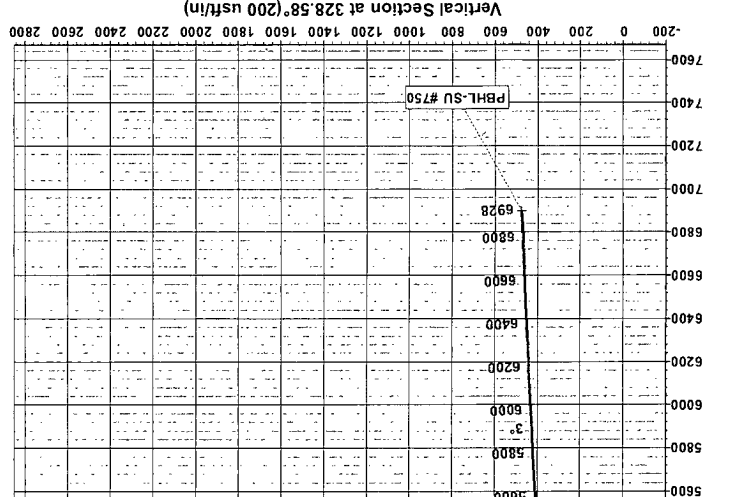


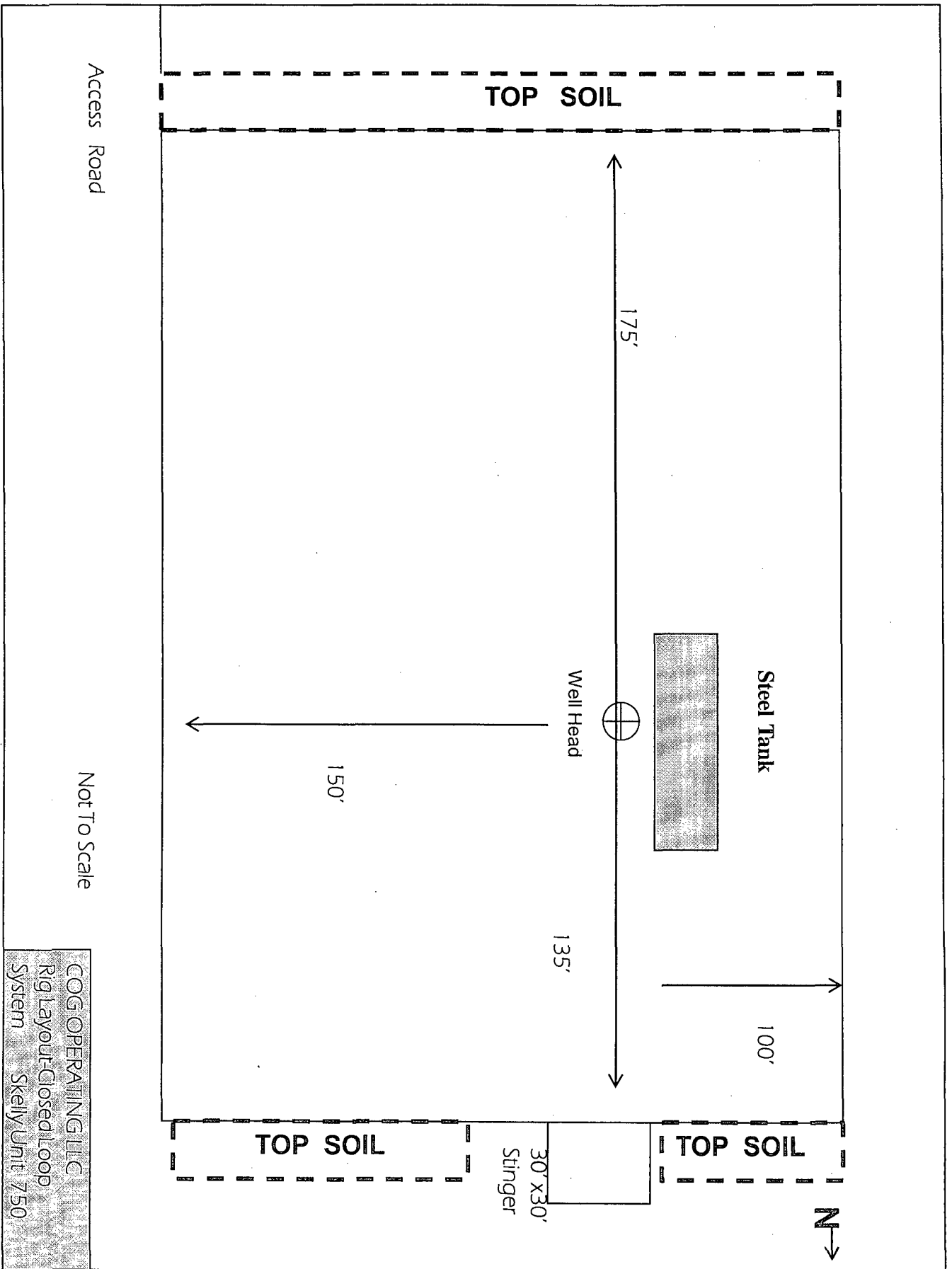
Scientific Drilling for COG Operating LLC
Site: Eddy County, NM (NAN27 NME)
Well: Skelly Unit #750
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Northing	Easting	Ground Level:
1	0.00	0.00	0.00	0.00	+N/-S	+E/-W	0.00	0.00	3850.00
2	1950.00	0.00	0.00	1950.00	+N/-S	+E/-W	0.00	0.00	3850.00
3	22351.41	8.03	328.58	2350.10	+N/-S	+E/-W	0.00	0.00	3850.00
4	4666.98	8.03	328.58	4642.97	+N/-S	+E/-W	0.00	0.00	3850.00
5	4925.26	2.86	328.58	4900.00	+N/-S	+E/-W	0.00	0.00	3850.00
6	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
7	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
8	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
9	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
10	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
11	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
12	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
13	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
14	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
15	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
16	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
17	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
18	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
19	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
20	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
21	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
22	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
23	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
24	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
25	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
26	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
27	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
28	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
29	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
30	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
31	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
32	6927.76	2.86	328.58	6900.00	+N/-S	+E/-W	0.00	0.00	3850.00
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PROJECT DETAILS: Eddy County, NM (NAN27 NME)
Plan: Plan #1 - 7-7/8" Hole (Skelly Unit #750/OH)
Geodetic System: US State Plane 1927 (Exact solution) Created By: Julio Pina
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Checked: _____
Reviewed: _____
Approved: _____
Date: _____
Date: _____
Date: _____
Date: 09-Sep-10

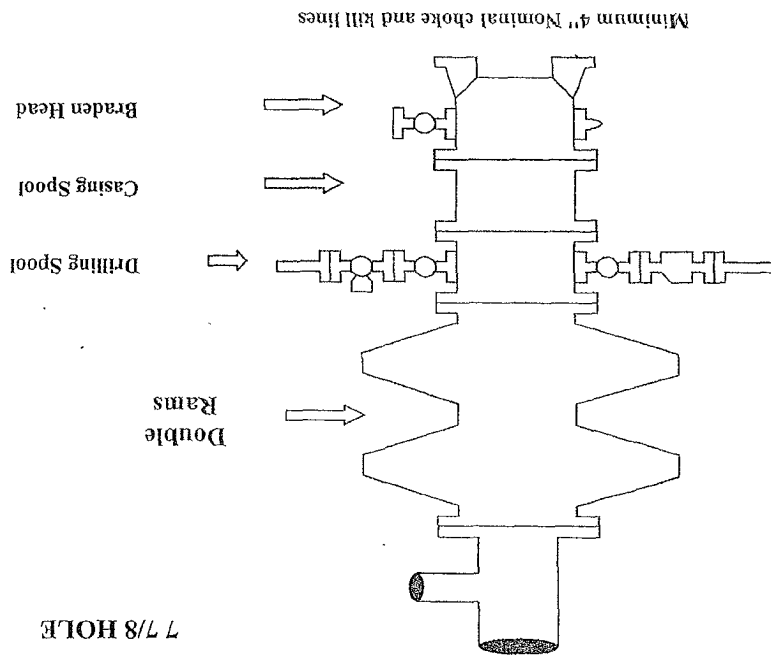




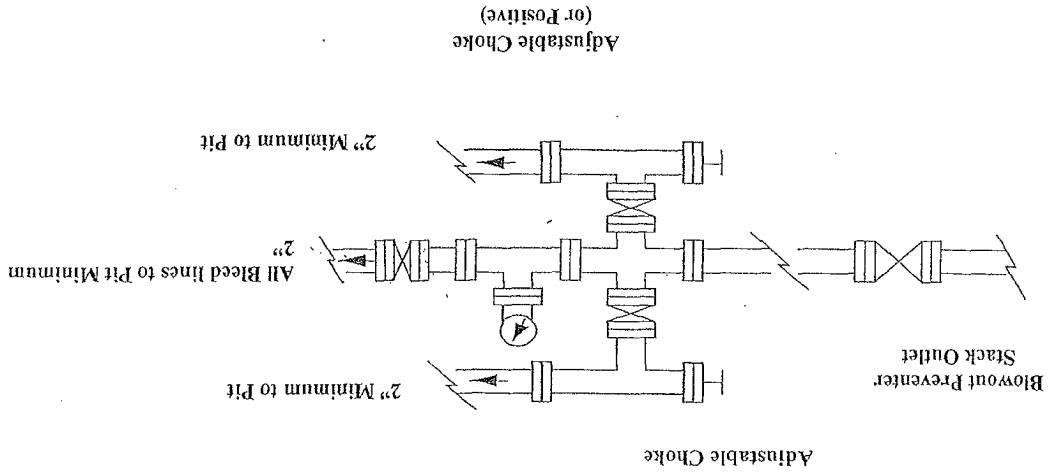
COG Operating LLC

Exhibit #9

BOPE and Choke Schematic



Choke Manifold Requirement (2000 psi WP)
No Annular Required



NOTES REGARDING THE BLOWOUT PREVENTERS

Master Drilling Plan

Eddy County, New Mexico

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

310

This are will be reclaimed to the anchors on steel pit side. 50' will be reclaimed towards the wellhead

N →

60' will be reclaimed on backside of pad

Stinger removed

30'x30' Stinger

Well Head

anchor

anchor

anchor

anchor

250

Not To Scale

COG OPERATING LLC
Rig Layout Closed Loop
Interim Reclamation plat
Skelly Unit 750

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
 - B. Land line (telephone) communication at Office.
- 8. Well testing:**

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

EXHIBIT #7

WARNING

YOU ARE ENTERING AN H2S

AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH COG OPERATING FOREMAN AT

COG OPERATING LLC

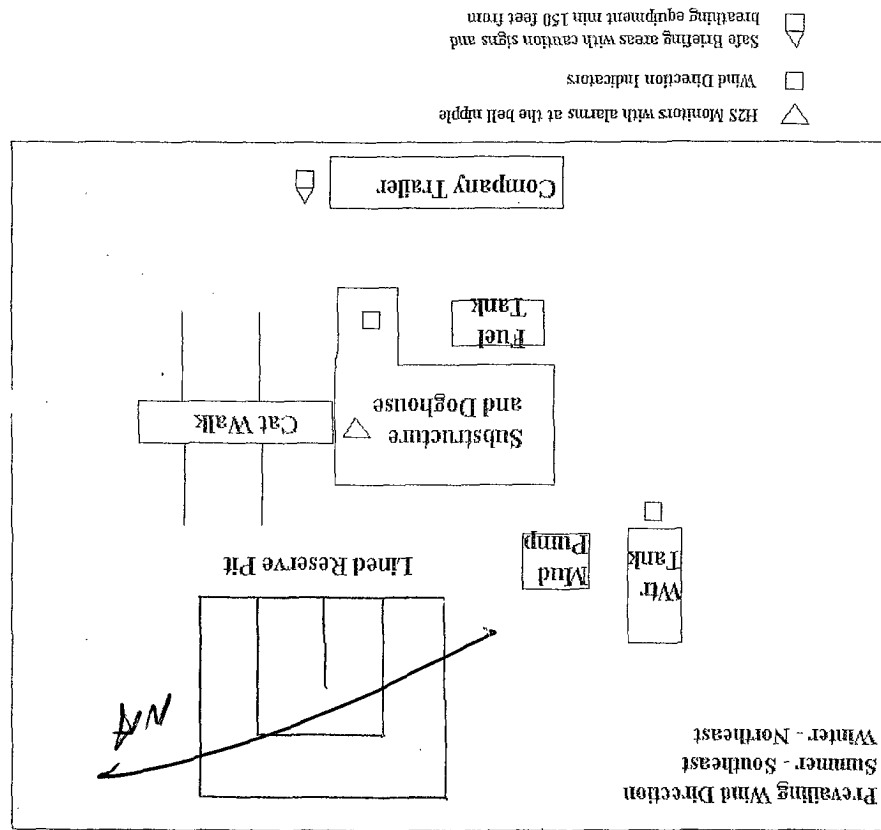
1-432-683-7443

1-575-746-2010

EDDY COUNTY EMERGENCY NUMBERS
ARTESIA FIRE DEPT. 575-746-5050
ARTESIA POLICE DEPT. 575-746-5000
EDDY CO. SHERIFF DEPT. 575-746-9888

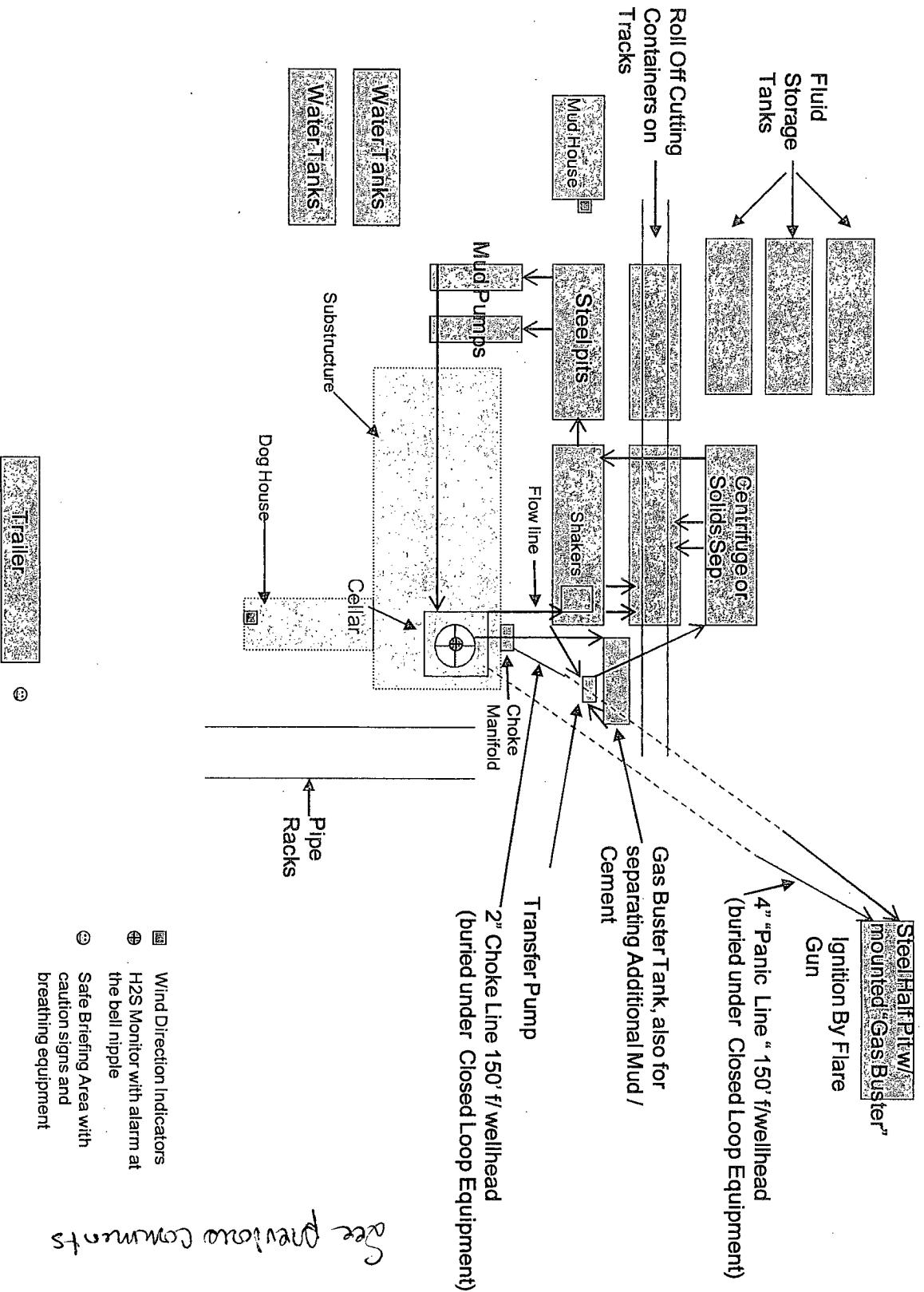
LEA COUNTY EMERGENCY NUMBERS
HOBBS FIRE DEPT. 575-397-9308
HOBBS POLICE DEPT. 575-397-9285
LEA CO. SHERIFF DEPT. 575-396-1196

DRILLING LOCATION H2S SAFETY EQUIPMENT Exhibit # 8



COG Operating LLC Drilling Location - H2S Safety Equipment Diagram

EXHIBIT 8



SURFACE USE AND OPERATING PLAN

Surface Use Plan
COG Operating, LLC
Skelly Unit 750
SHL 1252' FSL & 94' FEL, UL P BHL 1650' FSL & 330' FEL, UL I
Section 22, T-17-S, R-31-E
Eddy County, New Mexico

1. Existing & Proposed Access Roads

A. The well site survey and elevation plat for the proposed well is shown in Exhibit #1. It was staked by John West Engineering, Hobbs, NM.

B. All roads to the location are shown in the topographic map Exhibit #2. The existing lease roads are illustrated and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling the well will be done where necessary.

C. Directions to Location: From the intersection US Highway 82 and Co. Rd. 223 (Sweet Gum Road), go Easterly on US Highway 82 approx 1.0 mile to Wiser Oil Co. sign and lease road. Turn Right and go South to an intersection. Turn Left & follow road curving to the Right approx 0.2 mile to the Skelly Unit 253 well pad. The location stake is approx 10 West of existing well pad. See Vicinity Map, Exhibit #3.

D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in section 2A of this Surface Use and Operating Plan.

2. Proposed Access Road:

Exhibit #4 shows that 0' of new access road will be required for this location. If any road is required it will be constructed as follows:

A. The maximum width of the running surface will be 14'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

B. The average grade will be less than 1%.

C. No turnouts are planned.

D. No culverts, cattleguard, gates, low water crossings or fence cuts are necessary.

- SHL 1252' FSL & 94' FEL, UL P BHL 1650' FSL & 330' FEL, UL I
 Section 22, T-17-S, R-31-E
 Eddy County, New Mexico
- Surface Use Plan
 COG Operating, LLC
 Skelly Unit 750
- 3. Location of Existing Well:**
- Exhibit #5 shows all existing wells within a one-mile radius of this well.
- As shown on this plat there are numerous wells producing from the San Andres and Yeso formations.
- 4. Location of Existing and/or Proposed Facilities:**
- A. COG Operating LLC does operate a production facility on this lease.
- B. If the well is productive, contemplated facilities will be as follows:
- 1) Production will be sent to the Skelly 989 Federal tank battery located well location @ 1980 FNL & 1649 FWL, Section 23, T17S, R31E, UL F. The facility location is shown in Exhibit #5.
- 2) The tank battery and facilities including all flow lines and piping will be installed according to API specifications.
- 3) Any additional caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche will be hauled from a BLM approved caliche pit. Any additional construction materials will be purchased from contractors.
- 4) Proposed flow lines, will follow an archaeologically approved route to the Skelly 989 Federal tank battery located well location @ 1980 FNL & 1649 FWL, Section 23, T17S, R31E, UL F. The flowline will be SDR 7 3" poly line laid on the surface and will be approximately 1.0 mile in length with max pressure 100 psi. Flowlines will be no more than 11' from the paralleling road. The facility location is shown in Exhibit #5.
- 5) It will be necessary to run electric power if this well is productive. Power will be provided by CVE and they will submit a separate plan and ROW for service to the well location.
- 6) If the well is productive, rehabilitation plans will include the following:
- a) The original topsoil from the well site will be returned to the location, and the site will be re-contoured as close as possible to the original site.

5. Location and Type of Water Supply:

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Exhibit #2. If a commercial fresh water source is nearby, fast line may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

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

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

A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.

B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.

C. Subsoil is removed and piled along side the 120' by 120' area within the pad site.

D. When caliche is found, material will be stock piled within the pad site to build the location and road.

E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.

F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche or subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.

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

7. Methods of Handling Water Disposal:

A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.

B. Drilling fluids will be contained in steel mud pits.

C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.

D. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill. No toxic waste or hazardous chemicals will be produced by this operation.

E. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

8. Ancillary Facilities:

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

9. Well Site Layout:

A. The drill pad layout, with elevations staked by John West Engineering, is shown in Exhibit #4. Dimensions of the pad and pits are shown on Exhibit #6. V door direction is North. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.

B. Exhibit #6 also shows the proposed orientation of closed loop system and access road. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.

10. Plans for Restoration of the Surface:

A. Interim Reclamation will take place after the well has been completed. The pad will be downsized by reclaiming the areas not needed for production operations. The portions of the pad that are not needed for production operations will be recontoured to its original state as much as possible. The caliche that is removed will be reused to either build another pad site or for road repairs within the lease. The stockpiled topsoil will then be spread out reclaimed area and reseeded with a BLM approved seed mixture. In the event that the well must be worked over or maintained, it may be necessary to drive, park, and/or operate machinery on reclaimed land. This area will be repaired or reclaimed after work is complete. Pad will be approx. 200'X250' when reclaimed.

- B. Final Reclamation: Upon plugging and abandoning the well, All caliche for well pad and lease road will be removed and surface will be recontoured to reflect its surroundings as much as possible. Caliche will be recycled for road repair or reused for another well pad within the lease. If any topsoil remains, it will be spread out and the area will be re-seeded with a BLM approved mixture and revegetated as per BLM orders.

11. Surface Ownership:

- A. The surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is multiple uses with the primary uses of the region for grazing of livestock and the production of oil and gas.

- B. The surface tenant for this site is Charles Martin, P.O. Box 706, Artesia NM 88211.

- C. The proposed road routes and surface location will be restored as directed by the BLM

12. Other Information:

- A. The area around the well site is grassland and the topsoil is sandy. The vegetation is moderately sparse with native prairie grasses, some mesquite and shinnery oak. No wildlife was observed but it is likely that mule deer, rabbits, coyotes and rodents traverse the area.

- B. There is no permanent or live water in the immediate area.

- C. There are no dwellings within 2 miles of this location.

- D. If needed, a Cultural Resources Examination is being prepared by Southern New Mexico Archaeological Services, Inc. P.O. Box 1, Bent New Mexico, 88314, phone # 505-671-4797 and the results will be forwarded to your office in the near future. Otherwise, COG will be participating in the Permian Basin MOA Program.

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

14. Lessee's and Operator's Representative:

Bond Coverage is Nationwide Bond # 000215

13. Bond Coverage:

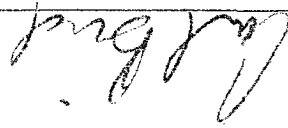
Surface Use Plan
COG Operating, LLC
Skelly Unit 750
SHL 1252' FSL & 94' FEL, UL P BHL 1650' FSL & 330' FEL, UL I
Section 22, T-17-S, R-31-E
Eddy County, New Mexico

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

Surface Use Plan
COG Operating, LLC
Skelly Unit 750
SHL 1252' FSL & 94' FEL, UL P BHL 1650' FSL & 330' FEL, UL I
Section 22, T-17-S, R-31-E
Eddy County, New Mexico

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements make in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or COG Operating, LLC, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 27th day of August, 2010.

Signed: _____



Printed Name: Carl Bird

Position: Drilling Engineer

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

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

E-mail: cbird@conchresources.com

PECOS DISTRICT CONDITIONS OF APPROVAL

COG Operating	OPERATOR'S NAME:
NMLC029419A	LEASE NO.:
750 Skelly Unit	WELL NAME & NO.:
1252' FSL & 94' FEL	SURFACE HOLE FOOTAGE:
1650' FSL & 330' FEL	BOTTOM HOLE FOOTAGE:
Section 22, T. 17 S., R 31 E., NMPM	LOCATION:
Eddy County, New Mexico	COUNTY:

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ General Provisions
- ☐ Permit Expiration
- ☐ Archaeology, Paleontology, and Historical Sites
- ☐ Noxious Weeds
- ☒ Special Requirements
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
 - Plan of Development
- ☐ Construction
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ Road Section Diagram
- ☒ Drilling
 - Waste Material and Fluids
 - H2S – Onshore Order 6 requirements
 - Logging requirements
- ☐ Production (Post Drilling)
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- ☒ Interim Reclamation
- ☒ Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Plan of Development

Sub-operator is to submit a Unit Plan of Development (UPOD) annually to the Unit operator for submission to the BLM. Guidelines for UPOD are available upon request at the BLM Carlsbad Field Office.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

C. CLOSED LOOP SYSTEM

V-door: north

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty (20) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

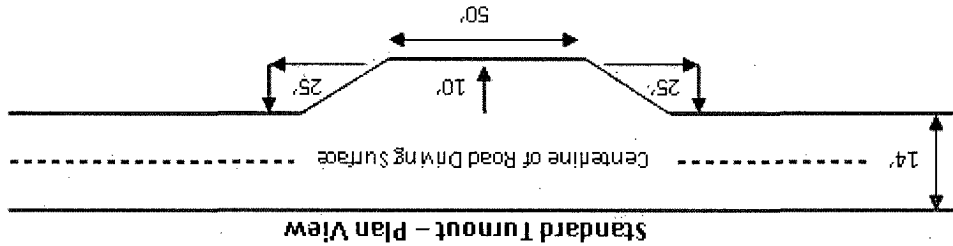
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

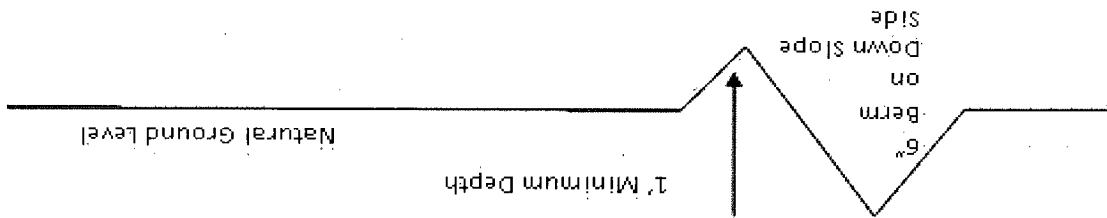


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslipping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %).

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

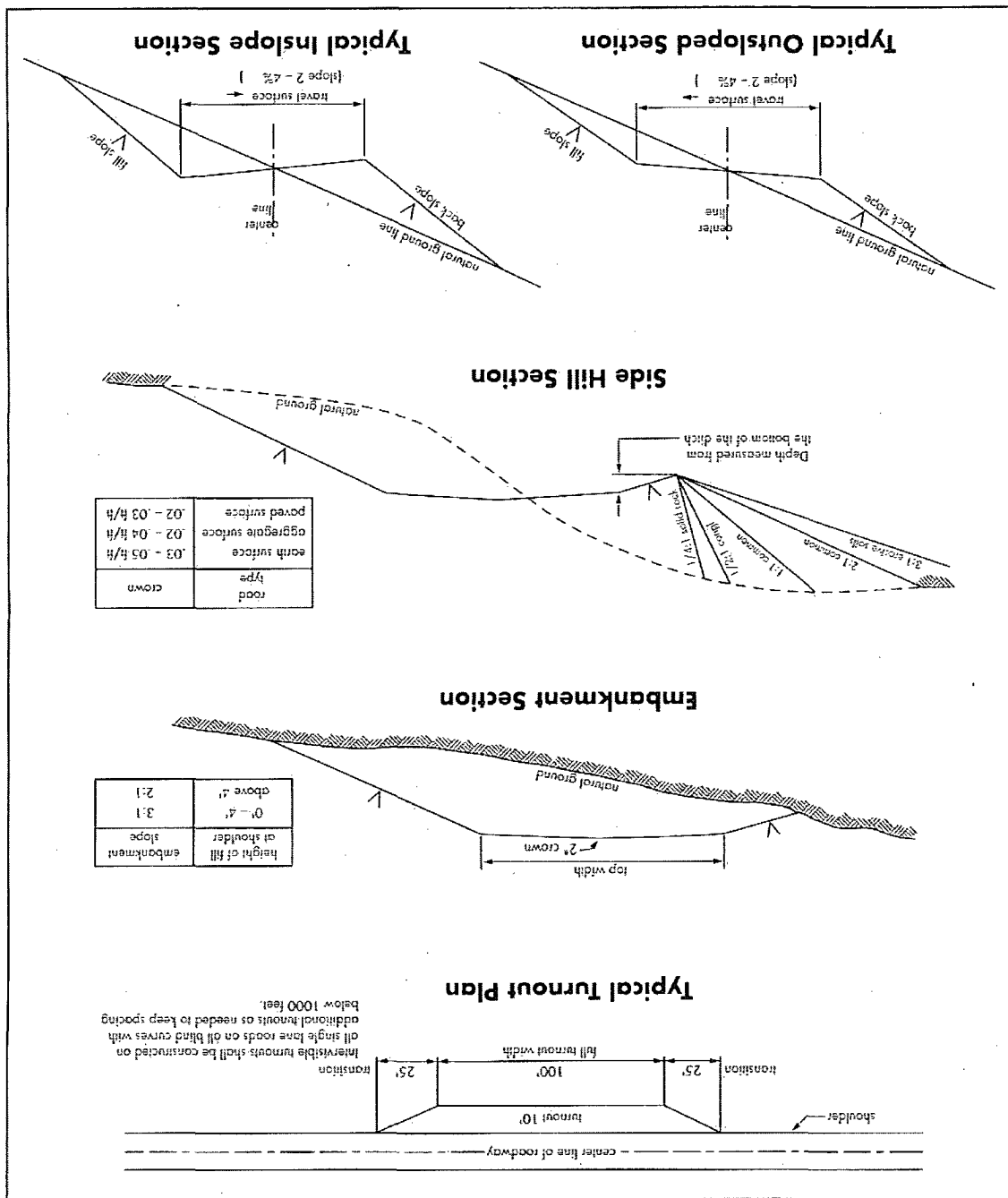


Figure 1 - Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Grayburg formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.

3. The record of the drilling rate along with the GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible water flows in the Salado and Artesia Groups.
Possible lost circulation in the Grayburg and San Andres formations.

1. The 13-3/8 inch surface casing shall be set at approximately 580 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered set the casing 25 feet above the top of the salt.
Freshwater mud to be used to setting depth.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **This casing is to be set within the Tansill formation.**
- If used, DV tool is to be set 50 feet below previous casing shoe. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.
- a. First stage to DV tool, cement shall:
- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool, cement shall:
- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- Centralizers required on directional leg, must be type for directional service and minimum of one every other joint.**
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- If used, DV tool is to be set 50 feet below previous casing shoe. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.
- a. First stage to DV tool, cement shall:
- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. **Additional cement may be required as the excess calculated 16%.**
- b. Second stage above DV tool, cement shall:
- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- I. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi**.
- a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips or where the float does not hold, the minimum wait time before cut-off is eight hours after bumping the plug or when the cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. BOP/BOPE testing can begin after the above conditions are satisfied.

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) prior to initiating the test.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
- f. **Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.**

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

RGH 102510

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color
Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq., or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.

b. Activities of other parties including, but not limited to:

- (1) Land clearing.
- (2) Earth-disturbing and earth-moving work.
- (3) Blasting.
- (4) Vandalism and sabotage.

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or

injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 25 feet.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

C. ELECTRIC LINES (not applied for in APD)

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and

loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A
**Four-winged Saltbush	5lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

DON C. DECK

Right-of-Way and Claims Agent

2410 Apperson
Midland, Texas 79705

432-682-0457
Fax 432-682-3837
Mobile 432-528-4401

E-Mail: dcdeck@att.net

October 5, 2010

Bureau of Land Management
Carlsbad Resource Area
Attn: Mr. Kurt Simmons
620 East Greene Street
Carlsbad, New Mexico 88220

Re: Devon Energy Production Company L. P
North Pure Gold "8" No. 13H Produced Water Line
Section 8, T23S, R31E
Eddy County, New Mexico

Dear Kurt:

Attached for your further handling are four copies of a Sundry Notice along with plats that depict a proposed water line for the above listed well. Please forward an approved copy to the following address.

Don C. Deck
2410 Apperson Drive
Midland, Texas 79705

If you need additional information please call me at 432 682 0457 or 432 528 4401 cell.

Thank you for your cooperation.

Sincerely



Don C. Deck