

DATE IN 4/3/2014	SUSPENSE	ENGINEER MAM	LOGGED IN 4/3/2014	TYPE NSL	APP NO. DMAM1403148382
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



ED CCD

2014-04-01 P 12:43

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

NSL-7001

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

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

- COG operating
 229317
 NOOSE Federal #794
 -30-015-Pending
Pool
 - N. Seven Rivers
 Glorietta-yes;
 97565

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

INTEREST ARE THE SAME

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

[B] ☐ Offset Operators, Leaseholders or Surface Owner

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

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

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

[F] ☐ Waivers are Attached

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

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

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

Kelly J. Holly
 Print or Type Name

Signature

Permitting Tech
 Title

1-30-14
 Date

(432) 685-4384
 Phone Number

kholly@concho.com
 E-mail Address

**Noose Federal Com #9H
Eddy County, NM**

COG is requesting to horizontally drill a SE/4 SW/4 to NE/4 NW/4 160 acre spacing
N. Seven Rivers; Glorieta-Yeso oil well
Approximately: TVD 2913', MD 7530'

Non-standard Location:

SHL: 150' FSL & 1590' FWL	Sec 35, T19S, R25E, Unit N
BHL: 330' FNL & 1590' FWL	Sec 35, T19S, R25E, Unit C

This well had to be staked at a non-standard location due to existing wells too close to original location.

We won't know the exact perms until we drill & log it, but it will be very similar to the Grave Digger State Com #1H and is located at:

SHL: 330' FNL & 380' FWL	Section 2, T20S, R25E, Unit 4
BHL: 322' FSL & 384' FWL	Section 2, T20S, R25E, Unit M

Grave Digger State Com #1H has perms from: 2880' – 6880' overall, but broken up into 5 separate intervals, with 5 separate fracs:

1st Perf: 2880-3480',
acidized w/ 4861 gals, 15% NEFE; frac'd w/256764# sand & 516224 gal fluid

2nd Perf: 3730-4330',
acidized w/ 2521 gals, 15% NEFE; frac'd w/249468# sand & 511005 gal fluid

3rd Perf: 4580-5180',
acidized w/ 2427 gals, 15% NEFE; frac'd w/255948# sand & 519074 gal fluid

4th Perf: 5430-6030',
acidized w/ 3985 gals, 15% NEFE; frac'd w/250253# sand & 532321 gal fluid

5th Perf: 6266-6880',
acidized w/ 1506 gals, 15% NEFE; frac'd w/254588# sand & 512961 gal fluid

Attachment 1

Plat & Map

Attachment 2

Map & legend of offset wells.

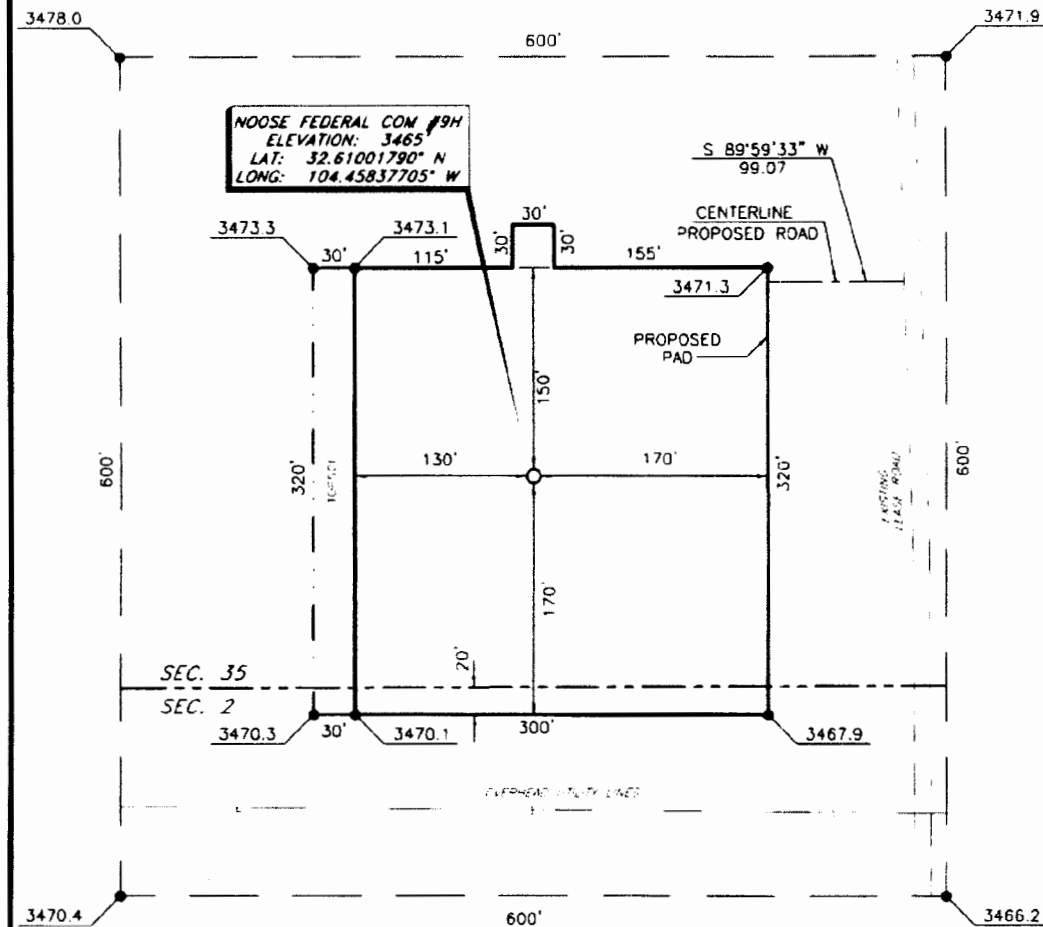
Attachment 3

Updated land plat showing that COG Operating LLC owns the 100% of Section 35. The acreage we are encroaching on is Units D, E, L and M of Section 35.

All interests are the same.

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

COG OPERATING, LLC
 NOOSE FEDERAL COM #9H
 (150' FSL & 1590' FWL)
 Section 35, T-19-S, R-25-E,
 N. M. P. M., Eddy Co., New Mexico



DIRECTIONS TO LOCATION

From the intersection of U. S. Hwy. No. 285 and
 County Road No. 23 (Rock Daisy);

Go West on Co. Rd. 23 approx. 3.0 miles;

Turn Left on a lease road;

Follow lease road South approx. 0.8 mile;

Turn left. Go Southeast approx. 0.3 mile;

Turn right and go South approx. 355 feet;

Location is approx. 268 feet West of the lease road.

SCALE: 1" = 100'
 0 50 100
 BEARINGS ARE
 NAD 27 GRID - NM EAST
 DISTANCES ARE
 GROUND

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NO.	REVISION	DATE
JOB NO.:	LS130465	
DWG. NO.:	130465PAD	

PROSPERITY CONSULTANTS, LLC



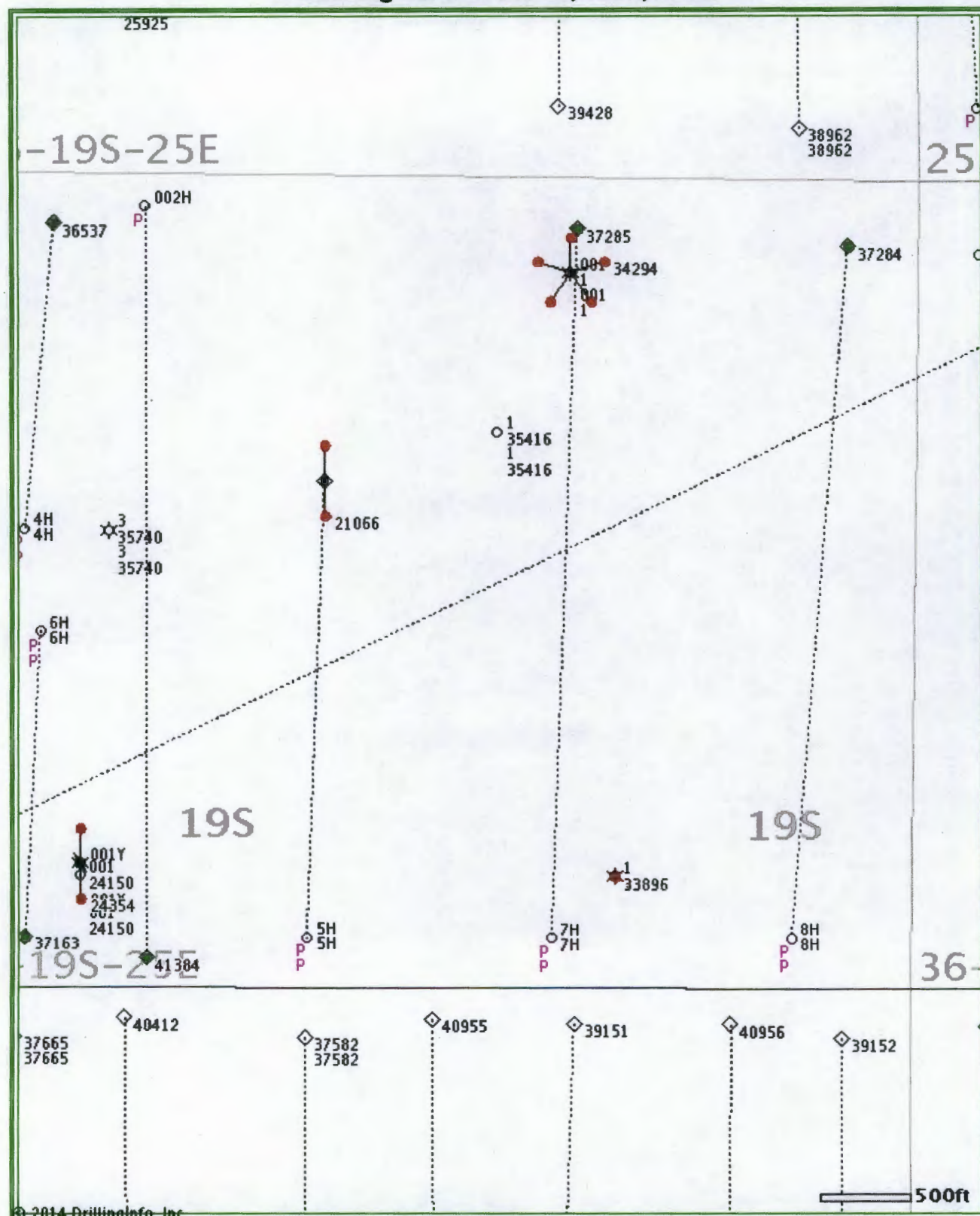
308 W Broadway St. Hobbs, NM 88240 | Firm No. TX 10193838 NM 4655451 | (575) 964-8200

SCALE: 1"=100'
DATE: 11/8/13
SURVEYED BY: CB/IE
DRAWN BY: JF
APPROVED BY: LWB
SHEET : 1 OF 1

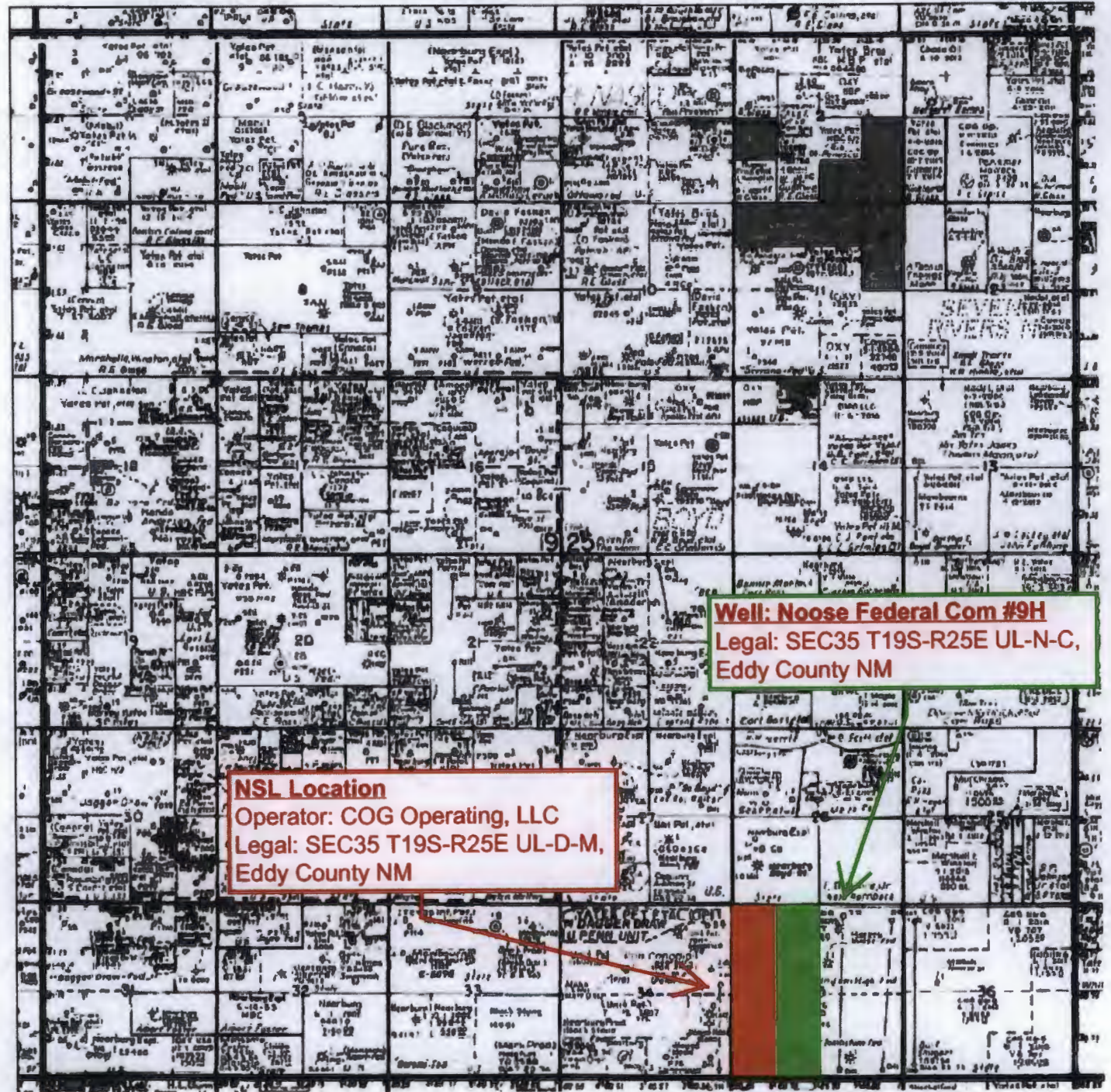
Producing wells in Sec 35, T19S, R25E

API#	Operator	Lease	Well#	County	Legal	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Prac. IP (MCF/D)
30-015-24354	NEARBURG PRODUCING CO	GULF FEDERAL COM	001Y	EDDY	S:35, T:19S, R:25E		G	Plugged and Abandoned	Dec 1998	Dec 1998	0.00
30-015-37284	COG OPERATING LLC	NOOSE FEDERAL COM	8H	EDDY	S:35, T:19S, R:25E	7,050	W	Active	Nov 2010	Oct 2013	0.42
30-015-34294	COG OPERATING LLC	HANG EM HIGH FEDERAL	1	EDDY	S:35, T:19S, R:25E	9,920	G	Active	Aug 2007	Oct 2013	1.43
30-015-34294	COG OPERATING LLC	HANG EM HIGH FEDERAL	1	EDDY	S:35, T:19S, R:25E	9,920	G	Active	Aug 2007	Oct 2013	5.77
30-015-31066	LRE OPERATING, LLC	MARATHON 26 STATE	004	EDDY	S:35, T:19S, R:25E	3,515	O	Active	Sep 2000	Oct 2013	22.58
30-015-21066	COG OPERATING LLC	NOOSE FEDERAL COM	5H	EDDY	S:35, T:19S, R:25E	9,835	W	Active	Jul 2009	Oct 2013	77.65
30-015-24354	NEARBURG PRODUCING CO	GULF FEDERAL COM	001Y	EDDY	S:35, T:19S, R:25E		G	Plugged and Abandoned	May 1984	Nov 1998	88.10
30-015-36537	COG OPERATING LLC	NOOSE FEDERAL	4H	EDDY	S:35, T:19S, R:25E	4,422	W	Active	Dec 2008	Oct 2013	91.81
30-015-37285	COG OPERATING LLC	NOOSE FEDERAL COM	7H	EDDY	S:35, T:19S, R:25E	7,100	W	Active	Feb 2010	Oct 2013	93.10
30-015-34294	COG OPERATING LLC	HANG EM HIGH FEDERAL	1	EDDY	S:35, T:19S, R:25E	9,920	G	Active	Aug 2007	Oct 2013	136.23
30-015-41384	COG OPERATING LLC	NOOSE FEDERAL COM	002H	EDDY	S:35, T:19S, R:25E	7,475	G	Active	Jul 2013	Oct 2013	188.35
30-015-21066	NEARBURG PRODUCING CO	HILLIARD GULF FEDERAL COM	5H	EDDY	S:35, T:19S, R:25E	9,835	W	Active	Jan 1977	May 1984	257.89
30-015-34294	MARBOB ENERGY CORP	HANG EM HIGH FEDERAL	1	EDDY	S:35, T:19S, R:25E	9,920	G	Active	Feb 2006	Apr 2007	351.32
30-015-34294	MARBOB ENERGY CORP	HANG EM HIGH FEDERAL	1	EDDY	S:35, T:19S, R:25E	9,920	G	Active	Feb 2006	May 2007	351.32
30-015-37163	COG OPERATING LLC	NOOSE FEDERAL	6H	EDDY	S:35, T:19S, R:25E	4,376	W	Active	Dec 2009	Oct 2013	383.19
30-015-33896	COG OPERATING LLC	TOMBSTONE FEDERAL	1	EDDY	S:35, T:19S, R:25E	10,000	G	Inactive	Jul 2005	Sep 2013	601.42

Producing wells in Sec 35, T19S, R25E



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Well: Moose Federal Com #9H
Legal: SEC35 T19S-R25E UL-N-C,
Eddy County NM

NSL Location
Operator: COG Operating, LLC
Legal: SEC35 T19S-R25E UL-D-M,
Eddy County NM



COG Operating LLC

Eddy County, NM (NAD 27 NME)

Noose Federal Com

#9H

Wellbore #1

Plan: Plan #1 01-08-14

Surface: 150' FSL, 1590' FWL, Sec 35, T19S, R25E, Unit N

PP: 330' FSL, 1590' FWL, Sec 35, T19S, R25E, Unit N

BHL: 330' FNL, 1590' FWL, Sec 35, T19S, R25E, Unit C

Standard Planning Report

08 January, 2014





Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
Project: Eddy County, NM (NAD 27 NME)
Site: Noose Federal Com
Well: #9H
Wellbore: Wellbore #1
Design: Plan #1 01-08-14

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #9H
WELL @ 3483.00usft (Original Well Elev)
WELL @ 3483.00usft (Original Well Elev)
Grid
Minimum Curvature

Project: Eddy County, NM (NAD 27 NME)
Map System: US State Plane 1927 (Exact solution) System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

Site: Noose Federal Com
Site Position: Northing: 585,657.00 usft Latitude: 32° 36' 36.04153 N
From: Map Easting: 460,945.50 usft Longitude: 104° 27' 36.59241 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: -0.07 °

Well: #9H
Well Position: +N/-S 1.70 usft Northing: 585,658.70 usft Latitude: 32° 36' 36.06480 N
+E/-W 550.40 usft Easting: 461,495.90 usft Longitude: 104° 27' 30.15763 W
Position Uncertainty: 0.00 usft Wellhead Elevation: Ground Level: 3,465.00 usft

Wellbore: Wellbore #1
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2010_14 01/08/14 7.71 60.33 48,493

Design: Plan #1 01-08-14
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.00
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
(usft) (usft) (usft) (°)
0.00 0.00 0.00 0.17

Plan Sections:

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,429.60	0.00	0.00	2,429.60	0.00	0.00	0.00	0.00	0.00	0.00	
3,252.33	90.50	0.17	2,950.45	525.42	1.60	11.00	11.00	0.02	0.17	
7,529.90	90.50	0.17	2,913.09	4,802.80	14.60	0.00	0.00	0.00	0.00	BHL Noose Federal C



Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
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Site: Noose Federal Com
Well: #9H
Wellbore: Wellbore #1
Design: Plan #1 01-08-14

Local Co-ordinate Reference:
TVD Reference: WELL @ 3483.00usft (Original Well Elev)
MD Reference: WELL @ 3483.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,429.60	0.00	0.00	2,429.60	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start Build 11.00°/100'									
2,500.00	7.74	0.17	2,499.79	4.75	0.01	4.75	11.00	11.00	0.00
2,600.00	18.74	0.17	2,596.98	27.62	0.08	27.63	11.00	11.00	0.00
2,700.00	29.74	0.17	2,688.02	68.62	0.21	68.62	11.00	11.00	0.00
2,800.00	40.74	0.17	2,769.56	126.24	0.38	126.24	11.00	11.00	0.00
2,876.16	49.12	0.17	2,823.43	179.98	0.55	179.99	11.00	11.00	0.00
PP Noose Federal Com #9H									
2,900.00	51.74	0.17	2,838.61	198.36	0.60	198.36	11.00	11.00	0.00
3,000.00	62.74	0.17	2,892.64	282.33	0.86	282.33	11.00	11.00	0.00
3,100.00	73.74	0.17	2,929.65	375.06	1.14	375.06	11.00	11.00	0.00
3,200.00	84.74	0.17	2,948.28	473.15	1.44	473.16	11.00	11.00	0.00
3,246.19	89.83	0.17	2,950.47	519.28	1.58	519.28	11.00	11.00	0.00
TL: 2955' TVD @ 0° VS w/90.5° Inc									
3,252.33	90.50	0.17	2,950.45	525.42	1.60	525.42	11.00	11.00	0.00
LP: 90.5° Inc at 0.17° Azi									
3,300.00	90.50	0.17	2,950.03	573.08	1.74	573.09	0.00	0.00	0.00
3,400.00	90.50	0.17	2,949.16	673.08	2.05	673.08	0.00	0.00	0.00
3,500.00	90.50	0.17	2,948.29	773.08	2.35	773.08	0.00	0.00	0.00
3,600.00	90.50	0.17	2,947.41	873.07	2.65	873.08	0.00	0.00	0.00
3,700.00	90.50	0.17	2,946.54	973.07	2.96	973.07	0.00	0.00	0.00
3,800.00	90.50	0.17	2,945.67	1,073.06	3.26	1,073.07	0.00	0.00	0.00
3,900.00	90.50	0.17	2,944.79	1,173.06	3.57	1,173.06	0.00	0.00	0.00
4,000.00	90.50	0.17	2,943.92	1,273.05	3.87	1,273.06	0.00	0.00	0.00
4,100.00	90.50	0.17	2,943.05	1,373.05	4.17	1,373.06	0.00	0.00	0.00
4,200.00	90.50	0.17	2,942.17	1,473.05	4.48	1,473.05	0.00	0.00	0.00
4,300.00	90.50	0.17	2,941.30	1,573.04	4.78	1,573.05	0.00	0.00	0.00
4,400.00	90.50	0.17	2,940.43	1,673.04	5.09	1,673.05	0.00	0.00	0.00
4,500.00	90.50	0.17	2,939.55	1,773.03	5.39	1,773.04	0.00	0.00	0.00
4,600.00	90.50	0.17	2,938.68	1,873.03	5.69	1,873.04	0.00	0.00	0.00
4,700.00	90.50	0.17	2,937.81	1,973.02	6.00	1,973.03	0.00	0.00	0.00
4,800.00	90.50	0.17	2,936.93	2,073.02	6.30	2,073.03	0.00	0.00	0.00
4,900.00	90.50	0.17	2,936.06	2,173.02	6.61	2,173.03	0.00	0.00	0.00
5,000.00	90.50	0.17	2,935.18	2,273.01	6.91	2,273.02	0.00	0.00	0.00
5,100.00	90.50	0.17	2,934.31	2,373.01	7.21	2,373.02	0.00	0.00	0.00
5,200.00	90.50	0.17	2,933.44	2,473.00	7.52	2,473.01	0.00	0.00	0.00
5,300.00	90.50	0.17	2,932.56	2,573.00	7.82	2,573.01	0.00	0.00	0.00
5,400.00	90.50	0.17	2,931.69	2,672.99	8.13	2,673.01	0.00	0.00	0.00
5,500.00	90.50	0.17	2,930.82	2,772.99	8.43	2,773.00	0.00	0.00	0.00
5,600.00	90.50	0.17	2,929.94	2,872.99	8.73	2,873.00	0.00	0.00	0.00
5,700.00	90.50	0.17	2,929.07	2,972.98	9.04	2,973.00	0.00	0.00	0.00
5,800.00	90.50	0.17	2,928.20	3,072.98	9.34	3,072.99	0.00	0.00	0.00
5,900.00	90.50	0.17	2,927.32	3,172.97	9.65	3,172.99	0.00	0.00	0.00
6,000.00	90.50	0.17	2,926.45	3,272.97	9.95	3,272.98	0.00	0.00	0.00
6,100.00	90.50	0.17	2,925.58	3,372.96	10.25	3,372.98	0.00	0.00	0.00
6,200.00	90.50	0.17	2,924.70	3,472.96	10.56	3,472.98	0.00	0.00	0.00
6,300.00	90.50	0.17	2,923.83	3,572.96	10.86	3,572.97	0.00	0.00	0.00
6,400.00	90.50	0.17	2,922.96	3,672.95	11.17	3,672.97	0.00	0.00	0.00
6,500.00	90.50	0.17	2,922.08	3,772.95	11.47	3,772.97	0.00	0.00	0.00
6,600.00	90.50	0.17	2,921.21	3,872.94	11.77	3,872.96	0.00	0.00	0.00
6,700.00	90.50	0.17	2,920.34	3,972.94	12.08	3,972.96	0.00	0.00	0.00
6,800.00	90.50	0.17	2,919.46	4,072.93	12.38	4,072.95	0.00	0.00	0.00
6,900.00	90.50	0.17	2,918.59	4,172.93	12.69	4,172.95	0.00	0.00	0.00



Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
Project: Eddy County, NM (NAD 27 NME)
Site: Moose Federal Com
Well: #9H
Wellbore: Wellbore #1
Design: Plan #1 01-08-14

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #9H
WELL @ 3483.00usft (Original Well Elev)
WELL @ 3483.00usft (Original Well Elev)
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,000.00	90.50	0.17	2,917.71	4,272.93	12.99	4,272.95	0.00	0.00	0.00
7,100.00	90.50	0.17	2,916.84	4,372.92	13.29	4,372.94	0.00	0.00	0.00
7,200.00	90.50	0.17	2,915.97	4,472.92	13.60	4,472.94	0.00	0.00	0.00
7,300.00	90.50	0.17	2,915.09	4,572.91	13.90	4,572.93	0.00	0.00	0.00
7,400.00	90.50	0.17	2,914.22	4,672.91	14.21	4,672.93	0.00	0.00	0.00
7,500.00	90.50	0.17	2,913.35	4,772.90	14.51	4,772.93	0.00	0.00	0.00
7,529.90	90.50	0.17	2,913.09	4,802.80	14.60	4,802.82	0.00	0.00	0.00

TD at 7529.90 - BHL Moose Federal Com #9H

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/mis target									
- Shape									
PP Moose Federal Com	0.00	360.00	2,823.40	179.98	0.55	585,838.68	461,496.45	32° 36' 37.84580 N	104° 27' 30.15369 W
- plan misses target center by 0.02usft at 2876.13usft MD (2823.41 TVD, 179.96 N, 0.55 E)									
- Point									
BHL Moose Federal Con	0.00	360.00	2,913.09	4,802.80	14.60	590,461.50	461,510.50	32° 37' 23.59221 N	104° 27' 30.05298 W
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,246.19	2,950.47	TL: 2955' TVD @ 0° VS w/90.5° Inc		-0.50	0.17

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Comment
2,429.60	2,429.60	0.00	0.00	KOP: Start Build 11.00°/100'
3,252.33	2,950.45	525.42	1.60	LP: 90.5° Inc at 0.17° Azi
7,529.90	2,913.09	4,802.80	14.60	TD at 7529.90



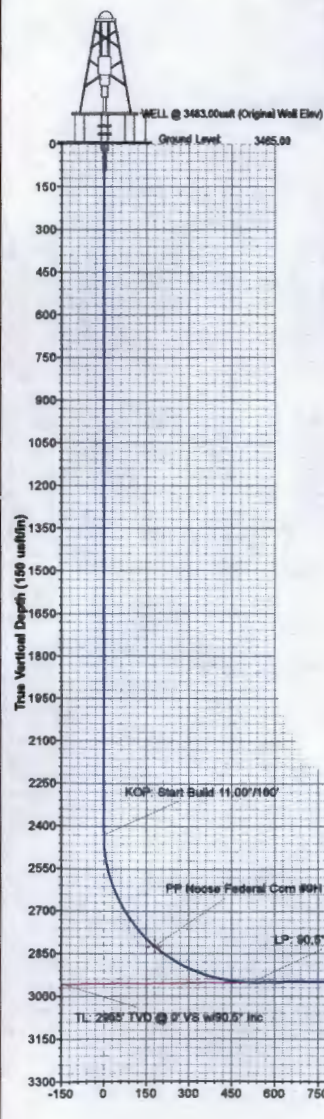
Project: Eddy County, NM (NAD 27 NME)
Site: Noose Federal Com
Well: #9H
Wellbore: Wellbore #1
Design: Plan #1 01-08-14
Rig: Original Well Elev



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Azimuth to Grid North
True North: 0.07°
Magnetic North: 7.77°
Magnetic Field
Strength: 48483.3nT
Dip Angle: 60.33°
Date: 01/08/2014
Model: IGRF2010_14



WELL DETAILS						
+N-S	+E-W	Northing	Ground Level	Easting	Latitude	Longitude
0.00	0.00	585658.70	3485.00	461495.90	32° 36' 36.06480 N	104° 27' 30.15763 W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Deg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2428.00	0.00	0.00	2428.00	0.00	0.00	0.00	0.00	0.00	
3	3252.33	90.50	0.17	2956.45	525.42	1.60	11.00	0.17	525.42	
4	7528.00	90.50	0.17	2913.09	4802.80	14.80	0.00	0.00	4802.82	BHL Noose Federal Com #9H

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape	
PP Noose Federal Com #9H	2823.40	179.98	0.55	585838.68	461496.45	32° 36' 37.84500 N	104° 27' 30.15368 W	Point	
- plan missus target center by 0.02usft at 2876.13usft MD (2823.41 TVD, 179.98 N, 0.55 E)									
BHL Noose Federal Com #9H	2913.09	4802.80	14.80	590491.50	461516.50	32° 37' 23.59221 N	104° 27' 30.05298 W	Point	
- plan hits target center									

LEGEND	
—	Plan #1 01-08-14

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #9H, Grid North
Latitude: 32° 36' 36.06480 N
Longitude: 104° 27' 30.15763 W
Grid East: 461495.90
Grid North: 585658.70
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 08-Jan-14
Magnetic Declination: 7.71°
Dip Angle from Horizontal: 60.33°
Magnetic Field Strength: 48483
To convert a Magnetic Direction to a Grid Direction, Add 7.77°
To convert a Magnetic Direction to a True Direction, Add 7.71° East
To convert a True Direction to a Grid Direction, Add 0.07°

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
2868.47	3248.16	TL: 285° TVD @ 0° VS w/90.5° Inc	-8.50	8.17

