

RECEIVED: 5/12/2017	REVIEWER: /	TYPE: SWD	APP NO: PMAM 1713256483
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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

**ADMINISTRATIVE APPLICATION CHECKLIST**

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

Applicant: COG Operating LLC **OGRID Number:** 229137
Well Name: Ronco Federal SWD #1 **API:**
Pool: SWD; Cisco-Canyon **Pool Code:** 96186

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☐ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☐ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☐ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

3) **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.

Kanicia Castillo

Print or Type Name

Signature

Date

432.685.4332

Phone Number

kcastillo@concho.com

e-mail Address

COG Operating, LLC

Lease & Well

3001520417

Spud date 4-11-71

Completion date 4-24-71

Elevation - 3638

Burch Keely Unit 23

Sec 18 K T 17S R 30E, 1980 FSL & 1894 FWL

EDDY CO., NM

Calculated TOC @ 216'

Calculated TOC @ 1,887'

2 3/8" tbg, SN @ 3255'

PBTD - 3304'

12 1/4" hole

8 5/8" 20# @ 456, mt w/100 sx.

Casing cementing calculations

8 5/8" 20# 12.25" Surface hole

Cement volume. = $100 \times 1.32 \text{ CF/SK} = 132 \text{ cu. Ft. slurry}$

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

456 - 240 = 216' estimated (calculated) top of cement.

4.5" 9.5 # 7 7/8" hole

Cement volume = $350 \times 1.32 \text{ CF/SK} = 462 \text{ cu.ft. slurry.}$

462 - 30% slurry loss for shoe joint & hole loss = 324 CF

324 CF X ann. Vol. of 4.3899 FT/CF = 1422'

3309 - 1422 = 1,887' estimated (calculated) top of cement.

2452 - 3130', acidized w/7000 gal 20%, frac w/120,000# Sd..

6/28/1971

3233 - 3264', frac w/60,000 gw, 60,000# sd.

P 60 BO, 75 MCF, & 100 BW 5-3-71

Cmt. w/350 sx C

4 1/2" 9.5# csg @ 3309'.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: COG Operating LLC
ADDRESS: One Concho Center, 600 W Illinois Ave, Midland, TX 79701
CONTACT PARTY: Dana King PHONE: 432-818-2267
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Dana King TITLE: Permitting Technician
SIGNATURE: *Dana King* DATE: 5/10/2017
E-MAIL ADDRESS: dking@concho.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

III.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: COG Operating LLC

WELL NAME & NUMBER: Ronco Federal SWD #1

WELL LOCATION:	<u>600' FNL & 1,650' FWL</u>	<u>C</u>	<u>19</u>	<u>17S</u>	<u>30E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See attached Schematic

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	<u>17 1/2"</u>	Casing Size:	<u>13 .375"</u>
Cemented with:	<u>400</u> sx.	or	<u> </u> ft ³
Top of Cement:	<u>Surface</u>	Method Determined:	<u>Circulate</u>

Intermediate Casing

Hole Size:	<u>12 1/4"</u>	Casing Size:	<u>9.625"</u>
Cemented with:	<u>450</u> sx.	or	<u> </u> ft ³
Top of Cement:	<u>Surface</u>	Method Determined:	<u>Circulate</u>

Production Casing

Hole Size:	<u>8 3/4"</u>	Casing Size:	<u>7"</u>
Cemented with:	<u>1200</u> sx.	or	<u> </u> ft ³
Top of Cement:	<u>Surface</u>	Method Determined:	<u>Circulate</u>
Total Depth:	<u>9,650</u>		

Injection Interval

Open Hole: 8,630 feet to 9,650

(Perforated or Open Hole; indicate which)

Tubing Size: 3 1/2" EUE Lining Material: Internally plastic coated
Type of Packer: Double grip type, set in neutral
Packer Setting Depth: no more than 100' above top perf
Other Type of Tubing/Casing Seal (if applicable): N/A

1. Is this a new well drilled for injection? X Yes _ No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Cisco Canyon
3. Name of Field or Pool (if applicable): SWD; Cisco-Canyon 96186
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____
- No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
- San Andres @ 2,713', Paddock @ 4,183', Wolfcamp @ 7,463',
- Strawn @ 10,182'

(Proposed WBD)

Ronco Federal SWD #1

600' FNL; 1,650' FWL

C, 19, T17S, R30E, Eddy Co., NM

API#

SWD Permit #

GL: 3,626'

17-1/2"

13-3/8" 54.5# J-55 ST&C @ 300'

Lead: 400sx "C" @ 14.8 ppg, 1.32 yield

12-1/4"

9-5/8" 40# J-55 ST&C @ 1,100'

Lead: 250sx 50:50:10 "C" PozGel @ 11.8 ppg, 2.45 yield

Tail: 200sx "C" @ 14.8 ppg, 1.32 yield

8-3/4"

DV/ECP @ 6,400'

3-1/2" 9.3# L-80 lined with CLS GlassBore, Ni plated injection packer, and 2.31 profile nipple; top of pkr @ 8,600'
(Proposed)

7" 29# L-80 LT&C @ 8,630'

1st: 300sx 50:50:2 "H" PozGel @ 14.0 ppg, 1.37 yield

2nd: 600sx 35:65:6 "C" PozGel @ 12.5 ppg, 2.01 yield +

400sx "H" @ 14.2 ppg, 1.19 yield

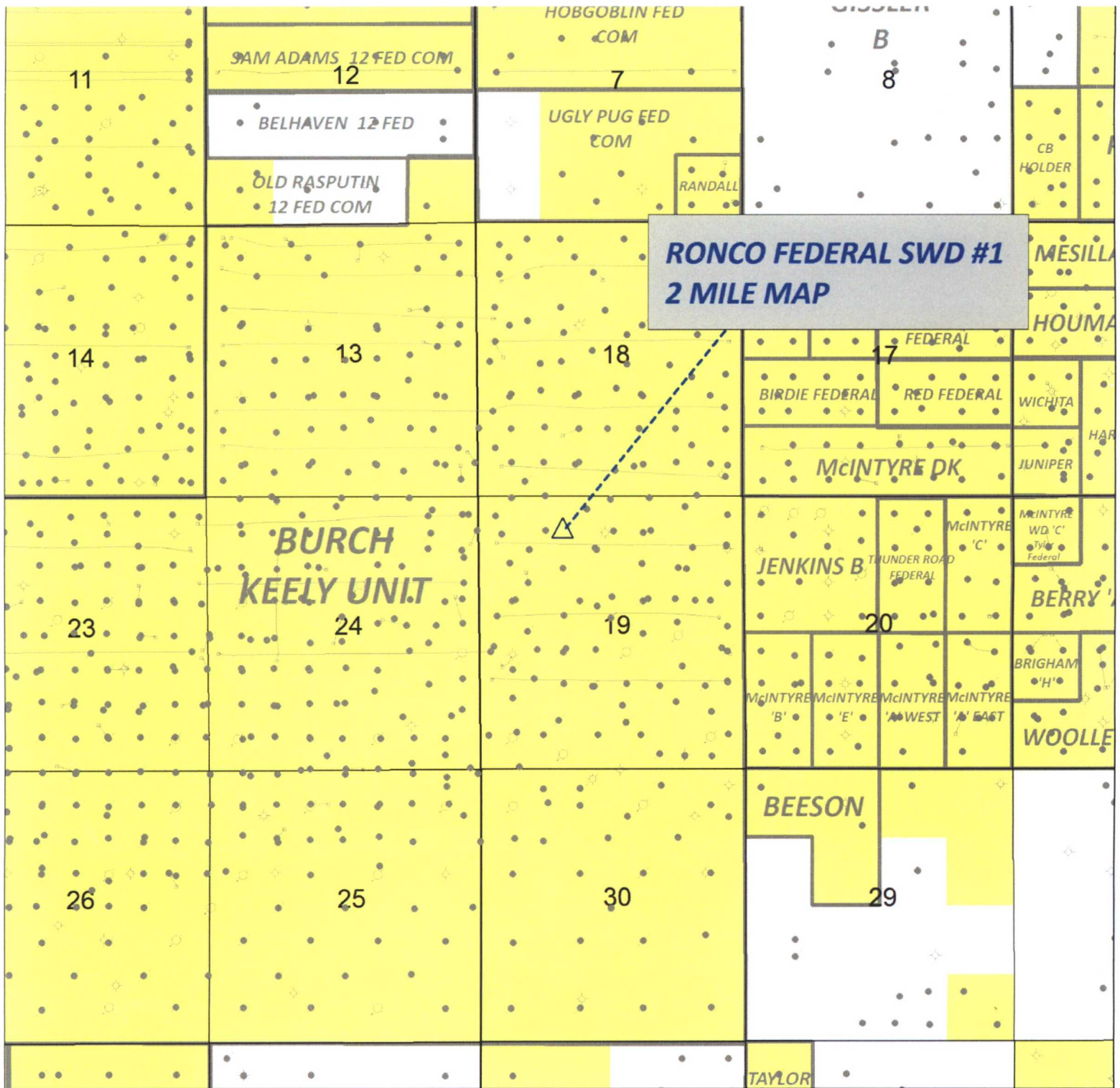
6-1/8"

8,630' - 9,650' (CiscoCanyon Reef)

Max Injection Pressure: 1,726 psi

9,650

JH - 12/5/2016



SENM
Ronco Federal SWD #1
 Sec. 19, T17S - R30E
TWO MILE MAP

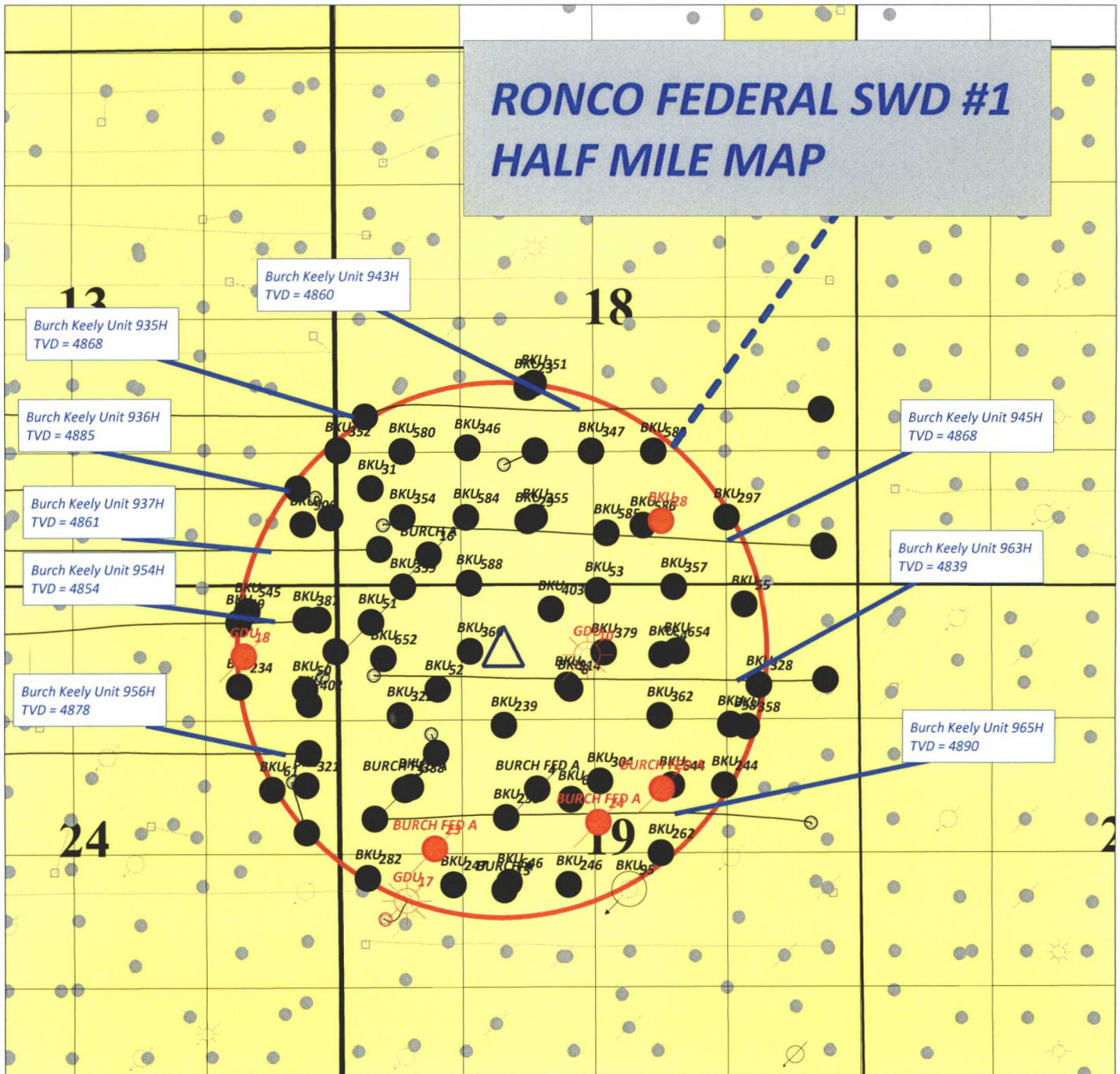
Author:
L. Marley

Date:
11 September, 2015

SENM: BLM APD FRAC MAPS/lm_RoncoFed-
SWD #1 2 Mile Map

Scale:
1" = 2000'

RONCO FEDERAL SWD #1 HALF MILE MAP



Legend

Well Name
Well No.



Other Operators



Half Mile Radius



Horizontal Well



Ronco Federal SWD #1



Concho Acreage



SENM
Ronco Federal SWD #1
Sec. 19, T17S - R30E
HALF MILE MAP

Author:

L. Marley

Date:

30 January, 2017

SENM: RA_SHELF/ra_RoncoFed-
SWD1_halfmileMap.gmp

Scale:
1:2000

VI. Tabulation of Data within the AOR

Well Name	#	Well ID	Operator	Hole Direction	TD	TVD	Status	Surface Location	Unit Let	Surface Hole Footage	BH Location	BH Footage
BURCH KEELY UNIT	963H	300153957600	COG OPERATING LLC	HORIZONTAL	9103	4839	OIL	TWP: 17 S - Range: 30 E - Sec. 19	D-A	893 FNL 358 FWL	TWP: 17 S - Range: 30 E - Sec. 18	1650 FSL 330 FEL
BURCH KEELY UNIT	965H	300154097300	COG OPERATING LLC	HORIZONTAL	9046	4890	OIL	TWP: 17 S - Range: 30 E - Sec. 19	H-E	2350 FNL 493 FEL		
BURCH KEELY UNIT	935H	300154274800	COG OPERATING LLC	HORIZONTAL	10123	4868	OIL	TWP: 17 S - Range: 29 E - Sec. 13	L-I	1650 FSL 200 FWL		
BURCH KEELY UNIT	937H	300154275900	COG OPERATING LLC	HORIZONTAL	10380	4861	OIL	TWP: 17 S - Range: 29 E - Sec. 13	M-M	330 FSL 200 FWL		
BURCH KEELY UNIT	943H	300153957500	COG OPERATING LLC	HORIZONTAL	9130	4860	OIL	TWP: 17 S - Range: 30 E - Sec. 18	I-L	1650 FSL 330 FWL		
BURCH KEELY UNIT	28	300150418800	GEN AMER OIL CO	VERTICAL	4243		OIL	TWP: 17 S - Range: 30 E - Sec. 18	O	660 FSL/1980 FEL		
PLUGGED WELLS HIGHLIGHTED IN YELLOW												
GRAYBURG DEEP UNIT	18	300153490500	CIMAREX ENERGY CO OF COLORADO	VERTICAL	11230		ABD-O	TWP: 17 S - Range: 29 E - Sec. 24	A	950 FEL/690 FNL		
GRAYBURG DEEP UNIT	17	300153421400	CONOCOPHILLIPS CO	DIRECTIONAL	11300	9539.83	GAS	TWP: 17 S - Range: 30 E - Sec. 19	L	1990 FSL 445 FWL		
GRAYBURG DEEP UNIT	10	300152579600	CONOCOPHILLIPS COMPANY	VERTICAL	11240		ABD-G	TWP: 17 S - Range: 30 E - Sec. 19	C	2480 FWL/660 FNL		
BURCH-FEDERAL A	5	300150419700	PRE-ONGARD	VERTICAL	3154		ABD-O	TWP: 17 S - Range: 30 E - Sec. 19	G	1980 FEL/1980 FNL		
BURCH-FEDERAL A	23	300150420700	PRE-ONGARD	VERTICAL	3149		ABD-O	TWP: 17 S - Range: 30 E - Sec. 19	E	955 FWL/2565 FNL		
BURCH-FEDERAL A	24	300150420800	PRE-ONGARD	VERTICAL	3142		ABD-O	TWP: 17 S - Range: 30 E - Sec. 19	G	2615 FEL/2310 FNL		
BURCH KEELY UNIT	93	300150420500	MARBOB ENERGY CORPORATION	VERTICAL	3162		OIL	TWP: 17 S - Range: 30 E - Sec. 19	K	2310 FSL/1650 FWL		
BURCH KEELY UNIT	30	300150419100	MARBOB ENERGY CORPORATION	VERTICAL	3316		ABD-O	TWP: 17 S - Range: 30 E - Sec. 18	M	905 FWL/330 FSL		
BURCH KEELY UNIT	60	300150419500	MARBOB ENERGY CORPORATION	VERTICAL	3101		ABD-O	TWP: 17 S - Range: 30 E - Sec. 19	E	660 FWL/1980 FNL		
BURCH KEELY UNIT	59	300150419600	MARBOB ENERGY CORPORATION	VERTICAL	3131		ABD-O	TWP: 17 S - Range: 30 E - Sec. 19	F	1980 FWL/1980 FNL		
BURCH-FEDERAL A	8	300150420000	PRE-ONGARD	VERTICAL	3225		OIL	TWP: 17 S - Range: 30 E - Sec. 19	C	990 FNL/2310 FWL		

COG Operating LLC

Lease & Well

3001504190

Burch Keely Unit 29

Eddy Co., NM

Sec 18 N T17S R30E 660 FSL & 1895 FWL

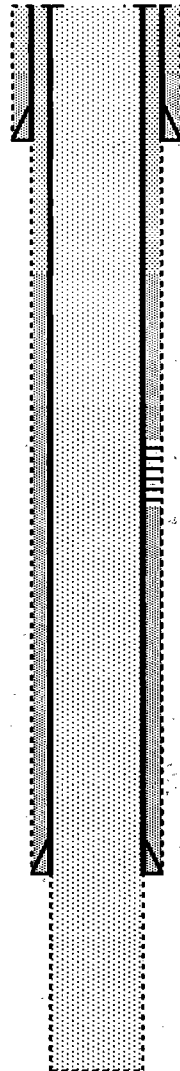
SPUD - 1-9-48

Completion - 3-12-48

Elevation - 3640' GR

Calc TOC @ 294'

7" Calc TOC @ 1,688'



8 5/8" 28 # @ 478', 75 sx C

$75 \times 1.32 = 99$ cu ft. $99 - 25\% = 74$

$74 \times 2.4889 = 184'$ fill

$478 - 184 = 294$ --estimated TOC

Perf'd 2519'-25' & 2560'-70'

Frac'd w/35K gals GBW & 40K # 20/40 sd

P 115 BOPD 1-11-70

Utilized as a gas injector and returned to producer 3-25-58

7 7/8" hole

$100 \times 1.32 = 132$ cu ft. $132 - 30\% = 92.4$

$92.4 \times 14.0845 = 1,301'$ fill

$2989 - 1301 = 1688$ --estimated TOC

7" 20# @ 2989', cmt w/100 sx

Acidized 3000'-3135' w/9500 gals

Flowed 37 BOPD 3-19-48

Original TD @ 3193'

COG Operating, LLC

Lease & Well

3001520793

Spud date 3-28-73

Completion date 4-17-73

Elevation - 3632

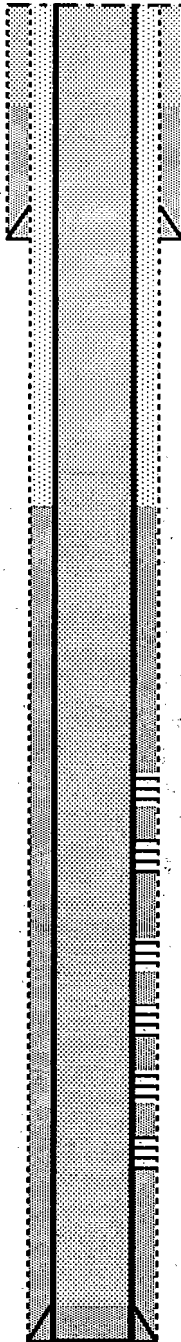
Burch Keely Unit 31

Sec 18 M T 17S R 30E, 990 FSL & 330 FWL

EDDY CO., NM

Calculated TOC @ 220'

Calculated TOC @ 2001'



12 1/4" hole

8 5/8" 20# @ 460, cmt w/100 sx.

Casing cementing calculations

8 5/8" 20# 12.25" Surface hole

Cement volume. = $100 \times 1.32 \text{ CF/SK} = 132 \text{ cu. Ft. slurry}$

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

460 - 240 = 220' estimated (calculated) top of cement.

4.5" 9.5 # 7 7/8" hole

Cement volume = $320 \times 1.32 \text{ CF/SK} = 422 \text{ cu.ft. slurry.}$

422 - 30% slurry loss for shoe joint & hole loss = 296 CF

296 CF X ann. Vol. of 4.3899 FT/CF = 1299'

3300 - 1299 = 2001' estimated (calculated) top of cement.

2443-2451 Frac'd w/ 20,000 gals GBW & 20,000# sd 4-73

2509-2557 Frac'd w/ 30,000 gals GBW & 30,000# sd 4-73

2625-2630 A/2,000 gals 4-73

2780-2788 Frac'd w/ 30,000 gals GBW & 30,000# sd 4-73

2986-3024 A/3,000 gals 4-73

3070-3078 Frac'd w/ 30,000 gals GBW & 30,000# sd 4-73

P 80 BO, 96 MCF, & 75 BW 4-19-73

PBTD - 3294'

4 1/2" 9.5# csg @ 3300' w/ 320 sxs.

COG Operating, LLC

Lease & Well

3001521265

Spud date 10-20-75

Completion date 11-4-75

Elevation - 3611

Burch Keely Unit 49

Sec 24 A T 17S R 29E, 330 FNL & 990 FEL

EDDY CO., NM

8/29/1989, Pumped 200 sx dn bradenhead.

Calculated TOC @ 200'

12 1/4" hole

0

8 5/8" 23, 24# @ 440, cmt w/100 sx.

Calculated TOC @ 1,782'

Casing cementing calculations

8 5/8" 20# 12.25" Surface hole

Cement volume = $100 \times 1.32 \text{ CF/SK} = 132 \text{ cu. ft. slurry}$

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

440 - 240 = 200' estimated (calculated) top of cement.

4.5" 14# 7 7/8" hole

Cement volume = $350 \times 1.32 \text{ CF/SK} = 462 \text{ cu. ft. slurry}$

462 - 30% slurry loss for shoe joint & hole loss = 323 CF

323 CF X ann. Vol. of 4.3899 FT/CF = 1418'

3200 - 1418 = 1782' estimated (calculated) top of cement.

2523 - 2543', 12 holes, Frac 20,000 gal, 20,000# sd

2618 - 2621', 6 holes, acidized W/2,500 gal 15%

2764 - 2770', 12 holes, Frac 20,000 gal 20,000# sd

2940 - 2943', 6 holes, acidized w/1,5000 gal 15%

3012 - 3015', 6 holes, acidized W/3,000 gal 15%

3071 - 3076', 10 holes, acidized w/4,000 gal 15%

IP P 65 BOD, 130 MCF, & 40 BLW 11-10-75

2 3/8" tbg, SN @ 3100

PBTD - 3194'

4 1/2" 9.5 # csg @ 3200' w/ 350 sxs..

TD @ 3550'

COG Operating, LLC

Lease & Well

3001503078

Spud date 4-21-37

Completion date 7-2-37

Elevation - 3611

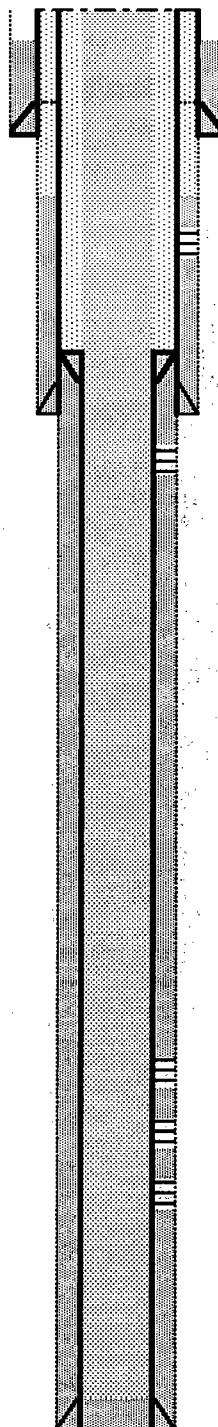
Burch Keely Unit 50

Sec 24 A T 17S R 29E, 990 FNL & 330 FEL
EDDY CO., NM

Calculated TOC @ 295'

Calculated TOC @ 1479'

Top of 4 1/2" liner @ 2625'



12 1/4" hole

8 1/4" 32# @ 405' w/ 50 sxs.

Perf'd @ 2472-78 & 2513-22 w/ 4 SPF

Frac'd w/ 44,100 Gals GBW & 40,000# 20/40 2-12-70

P 75 BO 2-19-70

7 7/8" hole

7" 20# @ 2873, cmt w/100 sx.

2951 - 2997' acidized with 3500 gals 15% 6-72

Casing cementing calculations

8 1/4" 32# 12.25" Surface hole

Cement volume = 50 X 1.32 CF/SK = 66 cu. Ft. slurry

66 - 25% slurry loss for shoe joint & hole loss = 50 CF

50 CF X ann. Vol. of 2.209 FT/CF = 110'

405 - 110 = 295' estimated (calculated) top of cement.

7" 20# 7 7/8" hole

Cement volume = 100 sxs X 1.32 CF/SK = 132 CF

132 - 25% loss = 99 CF

99 CF X annular volume of 14.0845 FT/CF = 1394'

2873 - 1394 = 1479 estimated TOC

P 80 BO 7-7-37

A/ OH 3055-3061 w/ 1,000 gals 7-10-37

A/ OH 3055-3061 w/ 1,500 gals 7-26-37

3032-3092', acidized W/2,500 gal 15% 6-72

3210- 3218', Frac 30,000 gal GBW & 17,000# sd 6-72

3336 - 3410', frac'd w/ 30,000 gals GBW & 30,000# sd 6-72

P 60 BO, 100 MCF, & 108 BW 6-14-72

Original TD @ 3108'

PBTD - 3550'

4 1/2" 9.5 # liner @ 2625-3555' w/ 150 sxs. Circ 50 sxs. 6-72

TD @ 3556' 6-72

COG Operating, LLC

Lease & Well

3001521268

Spud date 7-25-74

Completion date 8-20-74

Elevation - 3620

Burch Keely Unit 51

Sec 19 D T 17S R 30E, 330 FNL & 330 FWL

EDDY CO., NM

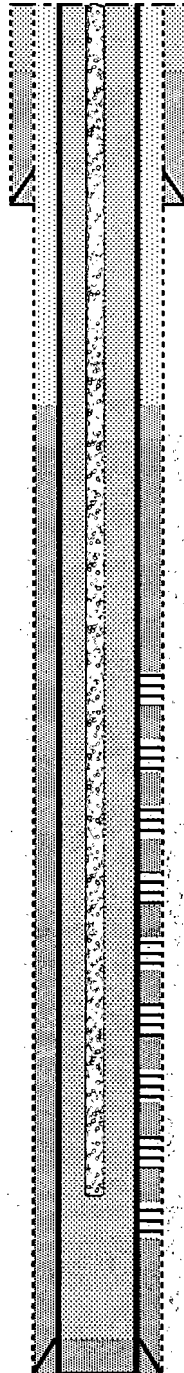
Calculated TOC @ 197'

TOC by temp survey @ 1,100'

Calculated TOC @ 996'

2 3/8" 4.7# J-55 IPC @ 3200'+-

PBTD - 3294'



12 1/4" hole

8 5/8" 20# @ 437, mt w/100 sx.

Casing cementing calculations

8 5/8" 20# 12.25" Surface hole

Cement volume. = 100 X 1.32 CF/SK = 132 cu. Ft. slurry

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

437 - 240 = 197' estimated (calculated) top of cement.

4.5" 9.5# 7 7/8" hole

Cement volume = 300 X 1.32 CF/SK = 396 cu.ft. slurry.

Cement volume = 300 X 1.18 CF/SK = 354 cu.ft. slurry.

750 - 30% slurry loss for shoe joint & hole loss = 535 CF

525 CF X ann. Vol. of 4.3899 FT/CF = 2304'

3300 - 2304 = 996' estimated (calculated) top of cement.

1548-1550 14 holes frac w/20,000 GW, 20,000# sd... **recompletion**

2434 - 2438', 16 holes, frac w/10,000 GW, 10,000# sd

2506 - 2548', 16 holes, frac w/20,000 GW, 30,000# sd

2619 - 2624', 10 holes, acidized w/2,000 gal 15%

2780 - 2788', 16 holes, Frac w/20,000 GW, 20,000 # sd

2950 - 2954', 8 holes, acidized w/2,000 gal 15%

3021 - 3026', 10 holes, acidized w/3,000 gal 15%

3079 - 3107', 12 holes, acidized w/4,000 gal 15%

3232 - 3246', 16 holes, frac w/20,000 GW, 20,000# sd

IP 75 BO, 75 MCF, & 100 BLW 8-20-74

4 1/2" 9.5 # csg @ 3300' w/600 sxs.

TD @ 3300'

COG Operating, LLC

Lease & Well

3001504201

Spud date 9-21-37

Completion date 12-6-37

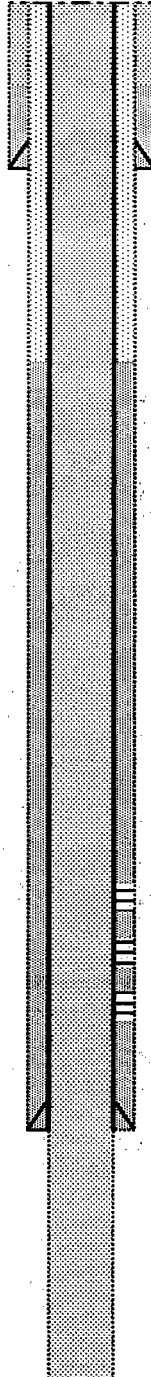
Elevation - 3621

Burch Keely Unit 52--Old WIW

Sec 19 D T 17S R 30E, 990 FNL & 990 FWL
EDDY CO., NM

Calculated TOC @ 309'

Calculated TOC @ 1394'



12 1/4" hole

8 1/4" 30# @ 430, Cmt w/50 sx.

Casing cementing calculations

8 1/4" 30# 12.25" Surface hole **

Cement volume. = 50 X 1.32 CF/SK = 66 cu. Ft. slurry

66 - 25% slurry loss for shoe joint & hole loss = 50.0 CF

50 CF X ann. Vol. of 2.4229 FT/CF = 121'

430 - 121 = 309' estimated (calculated) top of cement.

7" 24# @ 2784' 7 7/8" hole

Cement volume = 100 X 1.32 CF/SK = 132 cu.ft. slurry.

132 - 25% slurry loss for shoe joint & hole loss = 99 CF

99 CF X ann. Vol. of 14.0845 FT/CF = 1,394'

2784 - 1394 = 1390' estimated (calculated) top of cement.

**Original surface: 10" csg to 325', pulled.

Assumed 8 5/8" csg & 12 1/4" average hole to est fill.

No records of hole size, cable tool

Grayburg

2424 - 2438, frac w/20,000 GW, 20,000 # sd 1-74

2500 - 2580', frac w/30,000 GW, 30,000 # sd 1-74

2656 - 2663', frac w/20,000 GW, 20,000# sd 1-74

IP 120 BO, 100 MCF, & 50 BLW 1/16/1974

7" 24 # csg @ 2784' w/ 100 sxs.

Acidized OH 3000'-3030' w/ 1000 gals 11-29-37

Acidized OH 3000'-3157' w/ 2000 gals 12-8-37

F 25 BO 12-10-37 San Andres

Converted to WIW 10-2-57. 600 BWPD @ 200 PSIG

SI WIW 2-2-61

Original TD @ 3157'

COG Operating, LLC

Lease & Well

3001522091

Spud date 6-18-77

Completion date 8-30-77

Elevation - 3633

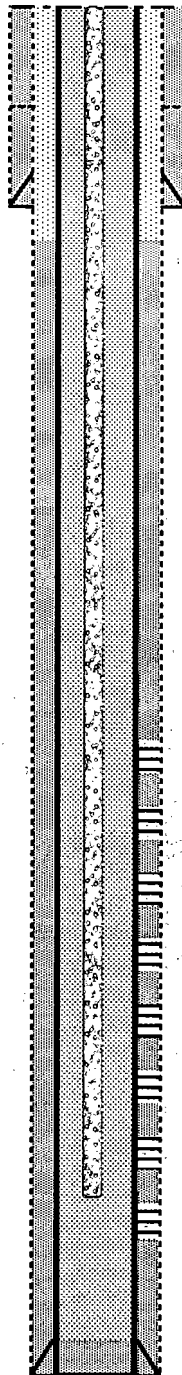
Burch Keely Unit 53

Sec 19 B T 17S R 30E, 25 FNL & 2615 FEL

EDDY CO., NM

Calculated TOC @ 255'

Calculated TOC @ 752'



Dumped 5 yds redi-mix dn annulus.

255' to surface = 4 yd.

12 1/4" hole

8 5/8" 20# @ 495, Cmt w/100 sx.

Casing cementing calculations

8 5/8" 20# 12.25" Surface hole

Cement volume. = 100 X 1.32 CF/SK = 132 cu. Ft. slurry

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

495 - 240 = 255' estimated (calculated) top of cement.

5.5" 15.5# 7 7/8" hole

Cement volume = 600 X 1.18 CF/SK = 708 cu.ft. slurry.

708 - 30% slurry loss for shoe joint & hole loss = 496 CF

496 CF X ann. Vol. of 5.7719 FT/CF = 2863'

3615 - 2863 = 752' estimated (calculated) top of cement.

2526 - 2577', 18 holes, frac w/20,000 GW, 20,000# sd

2655 - 2658', 6 holes, acidized w/1,500 gal

2806 - 2816', 20 holes, frac w/30,000 GW, 30,000# sd

3013 - 3062', 12 holes, acidized w/2,000 gal

3106 - 3124', 15 holes, acidized w/4,000 gal 15%

3262 - 3293', 14 holes, frac w/30,000 GW 20,000 #sd

3382 - 3422', 18 holes, frac w/30,000 GW 30,000 # sd

3536 - 3547', 14 holes, frac w/20,000 GW, 20,000# sd

IP 36 BO, 0 MCF, & 12 BLW 9-3-77

Cmt w/600 sx H w/ add

5 1/2" 15.5 # csg @ 3615'.

TD @ 3615

2 3/8" 4.7# J-55 IPC @ 3549'+-

PBTD - 3609'

COG Operating, LLC

Lease & Well

3001504199

Spud date 6-18-36

Completion date 8-24-36

Elevation - 3638

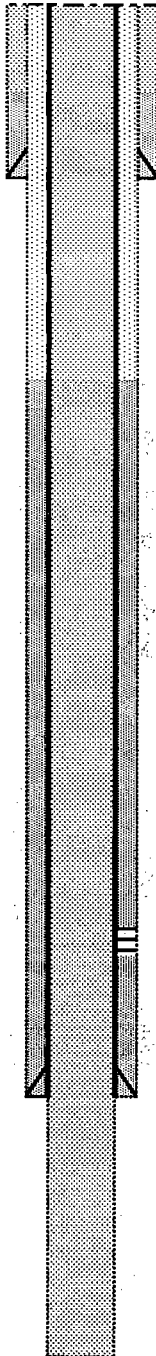
Burch Keely Unit 54

Sec 19 B T 17S R 30E, 660 FNL & 1980 FEL

EDDY CO., NM

Calculated TOC @ 354'

Calculated TOC @ 1321'



12 1/4" hole

8 1/4" 32# @ 475, Cmt w/50 sx.

Casing cementing calculations

8 1/4" 32# 12.25" Surface hole **

Cement volume. = 50 X 1.32 CF/SK = 66 cu. Ft. slurry

66 - 25% slurry loss for shoe joint & hole loss = 50.0 CF

50 CF X ann. Vol. of 2.4229 FT/CF = 121'

475 - 121 = 354' estimated (calculated) top of cement.

7" 24# @ 2715' 7 7/8" hole

Cement volume = 100 X 1.32 CF/SK = 132 cu.ft. slurry.

132 - 25% slurry loss for shoe joint & hole loss = 99 CF

99 CF X ann. Vol. of 14.0845 FT/CF = 1394'

2715 - 1394 = 1321' estimated (calculated) top of cement.

Grayburg

2538 - 2620, Frac w/40,000 GW, 40,000 # sd 2-7-73

IP P 26 BO, 30 MCF, & 11 BW 2-16-73

7" 24 # csg @ 2715' w/ 100 sxs.

Acidized OH w/ 1000 gals 8-31-36

F 440 BO 8-31-36 San Andres

Acidized OH w/ 2000 gals 6-20-37

Acidized OH w/ 1000 gals 12-10-41

Frac'd OH w/1680 gals condensate, 3024 gals LO,

9366 gals RO, 6342 gals LO & 20,000# sd. 5-2-55

F 13 BO 5-15-55

Original TD @ 3157'

COG Operating, LLC

Lease & Well

3001521657

Spud date 1-30-76

Completion date 3-19-76

Elevation - 3642

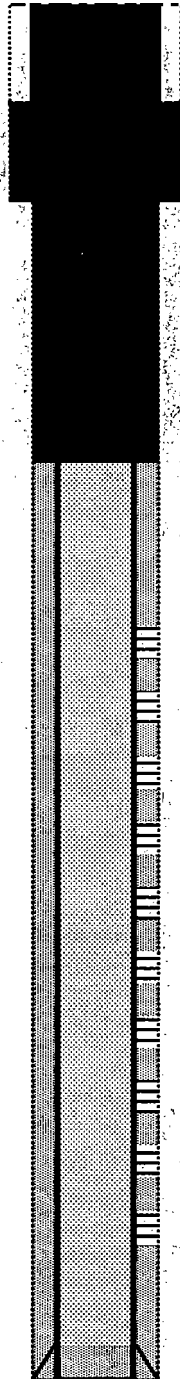
Burch Keely Unit 55

Sec 19 A T 17S R 30E, 165 FNL & 1155 FEL

EDDY CO., NM

Calculated TOC @ 256'

Calculated TOC @ 641'



12 1/4" hole

8 5/8" 24# @ 496, Cmt w/100 sx.

Casing cementing calculations

8 5/8" 24# 12.25" Surface hole

Cement volume. = 100 X 1.32 CF/SK = 132 cu. Ft. slurry

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

496 - 240 = 256' estimated (calculated) top of cement.

5.5" 15.5# 7 7/8" hole

Cement volume = 625 X 1.18 CF/SK = 738 cu.ft. slurry.

738 - 30% slurry loss for shoe joint & hole loss = 517 CF

517 CF X ann. Vol. of 5.7719 FT/CF = 2984'

3625 - 2984 = 641' estimated (calculated) top of cement.

1613-1618', 15 holes, frac w/20,000 GW, 20,000# sd

2483 - 2491', 16 holes, frac w/20,000 GW, 20,000# sd

2555 - 2606', 16holes, frac w/30,000 GW, 30,000# sd

2682 - 2686', 8 holes, acidized w/2000 gal

2772 - 2774', 4 holes, acidized w/ 15000 gals

3067 - 3071', 8 holes, acidized w/2,500 gal

3142 - 3146', 8 holes, acidized w/3500 gal 15%

3314 - 3322', 16 holes, frac w/20,000 GW 20,000 #sd

3411 - 3419', 16 holes, frac w/20,000 GW 20,000 # sd

3572 - 3582', 20 holes, frac w/20,000 GW, 20,000# sd

IP 55 BO, 200 MCF, & 74 BLW 3-24-76

Cmt w/625 sx H w/ add

5 1/2" 15.5 # csg @ 3625'.

TD @ 3625

PBTD - 3619'

COG Operating, LLC

Lease & Well

3001504192

Spud date 12-9-1949

Completion date 02-8-1950

Elevation - 3637

Burch Keely Unit 58

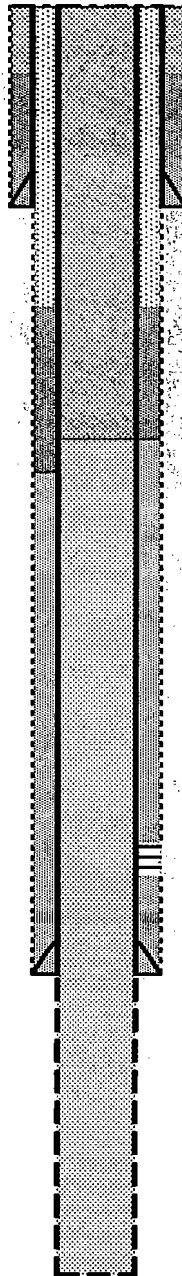
Sec 19 A T 17S R 30E, 1345 FNL & 1295 FEL

EDDY CO., NM

Calculated TOC @ 298'

Calculated TOC @ 1660'

TD 3223'



11 " hole

8 5/8" 24# @ 493, Cmt.w/50 sx.

Casing cementing calculations

8 5/8" 24# casing 11" Surface hole

Cement volume. = 50 X 1.32 CF/SK = 66 cu. Ft. slurry

66 - 25% slurry loss for shoe joint & hole loss = 49.5 CF

49.5 CF X ann. Vol. of 3.9337 FT/CF = 195'

493 - 195 = 298' estimated (calculated) top of cement.

7" 20# casing 8 1/4" hole

Cement volume = 100 X 1.32 CF/SK = 132 cu.ft. slurry.

132 - 20% slurry loss for shoe joint & hole loss = 105.6 CF

105.6 CF X ann. Vol. of 9.6182 FT/CF = 1,016"

2676 - 1016 = 1660' estimated (calculated) top of cement.

TA'd in 1992, back on production 7/23/1996

GB/SA 7/16/1985

2348 - 2650' Acidized w/2125 gal 7 1/2%, frac w/40K gal & 51K# sd

IP 10.4 BOD 11.68 MCFGD 14.95 BWD, GOR 1123, 34.8 deg API oil

7" 20# csg @ 2676'.

Cmt w/100 sx

Original completion: Acidized

IP 31 BOD, 0 MCF reported, 0 BW reported.

Recompletion 11/1/1955: frac w/LO & 23,500# sd.

COG Operating, LLC

Lease & Well

3001505911

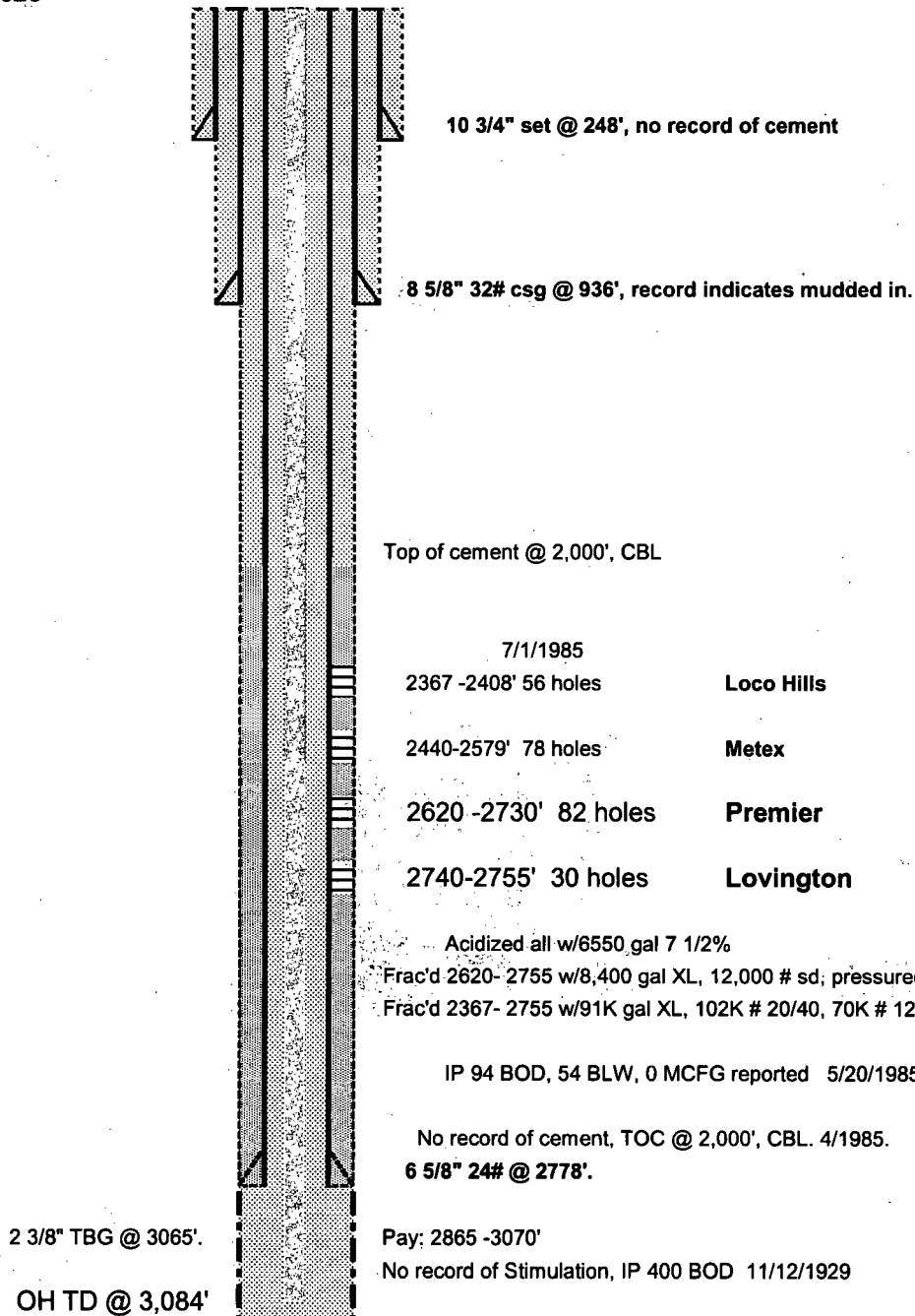
Spud date 8/28/1929

Completion Date 5/14/1985

Elevation - 3625

Burch Keely Unit 61

Sec 24 T 17S R 29E, 1980 FNL & 660 FEL
EDDY CO., NM



COG Operating, LLC

Lease & Well

3001504204

Spud date 4/5/1939

Completion Date 4/2/1973 (recompletion)

Elevation - 3619

Burch Keely Unit 95

Sec 19 T 17S R 30E, 3210 FSL & 2310 FEL

EDDY CO., NM

Calculated TOC @ 292' FS.

Calculated TOC @ 1855' fs

85 jts 2 3/8" IPC tbg.
Hall. R-4 PC pkr @ 2665'

Top of liner @ 2682'.

PBTD 3606'

Pumped 50 sx CL C dn 7" 8 5/8" annulus, circ to surface after 50 sx.
Volume calculates to 145' of fill. 1/31/1985

8 5/8" set @ 487', 50 sx cmt. Files indicate 11" hole.

Casing cementing calculations

8 5/8" 24# 11" Hole

Cement volume. = 50 X 1.32 CF/SK = 66 cu. Ft. slurry
66 - 25% slurry loss for shoe joint & hole loss = 49.5 CF
49.5 CF X ann. Vol. of 3.9337 FT/CF = 195'
487 - 195 = 292' estimated (calculated) top of cement.

7" 20# 8 1/4" hole 100 sx

Cement volume = 100 X 1.18 CF/SK = 118 cu.ft. slurry.
118 - 25% slurry loss for shoe joint & hole loss = 88.5 cf
88.5 CF X ann. Vol. of 9.6182 FT/CF = 851'
2706 - 851 = 1855' estimated (calculated) top of cement.

4 1/2" 9.5# csg 6 1/4" hole Circulated 75 sx

2489 - 2496' frac w/30,000 gal GW, 30,000 #sd
Squeezed w 160 sx 10/23/1998

2604 - 2637' frac w/30,000 gal GW, 30,000 # sd

7" 20# csg @ 2706', 100 sx cmt. 8 1/4" hole TD @ 3612'.

2956 - 2960' acidized w/2,500 gal

3300 - 3307' frac w/30,000 gal GW, 30,000 # sd

3491 - 3452 } frac w/30,000 gal GW, 30,000 # sd
3538 - 3542 }

IP 40 bod, 35 mcfgd, 65 BLW 4/9/1973

6 1/4" HOLE

4 1/2" 9.5# @ 3610'. Top @ 2682'. 220 sx cmt. Circ. 75 sx.

COG Operating, LLC

Lease & Well

3001527652

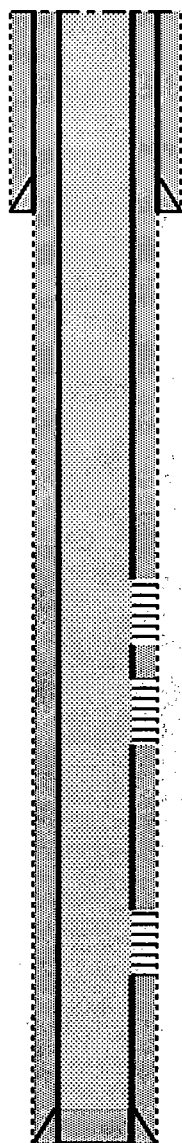
Spud date 5-28-94

Completion date 6-23-94

Elevation - 3605

Burch Keely Unit 234

Sec 24 T17S R29E, Unit A 960 FNL & 990 FEL
EDDY CO., NM



12 1/4 hole

8 5/8" 24# @ 421 Cmt w/350 sx. Circulated 125 sx

2340 - 2622 holes acidized w/2,000 gal 15% HCL
Frac w/40,000 gal LG, 107,000 # sd

2861 - 3794 acidized w/4,000 gal 15% HCL
Frac w/118,300 #sd, ?? GW

4139 - 4479' acidized w/7,000 15% HCL
Hot acid job: 35,000 gal 20% HCL, 54,000 gal GW
IP 74 BO 130 MCFG, 465 BW 7/17/94

Cmt 1st stage w/300 sx C w/add, circ 90 sx.
Cmt 2nd stage w/650 sx P+, 300 sx 50/50 poz, circ 102 sx
5 1/2" 17# csg @ 4633' 7 7/8" hole

DV tool @ 3258'.

PBTD - 4630

COG Operating, LLC

Lease & Well

3001528331

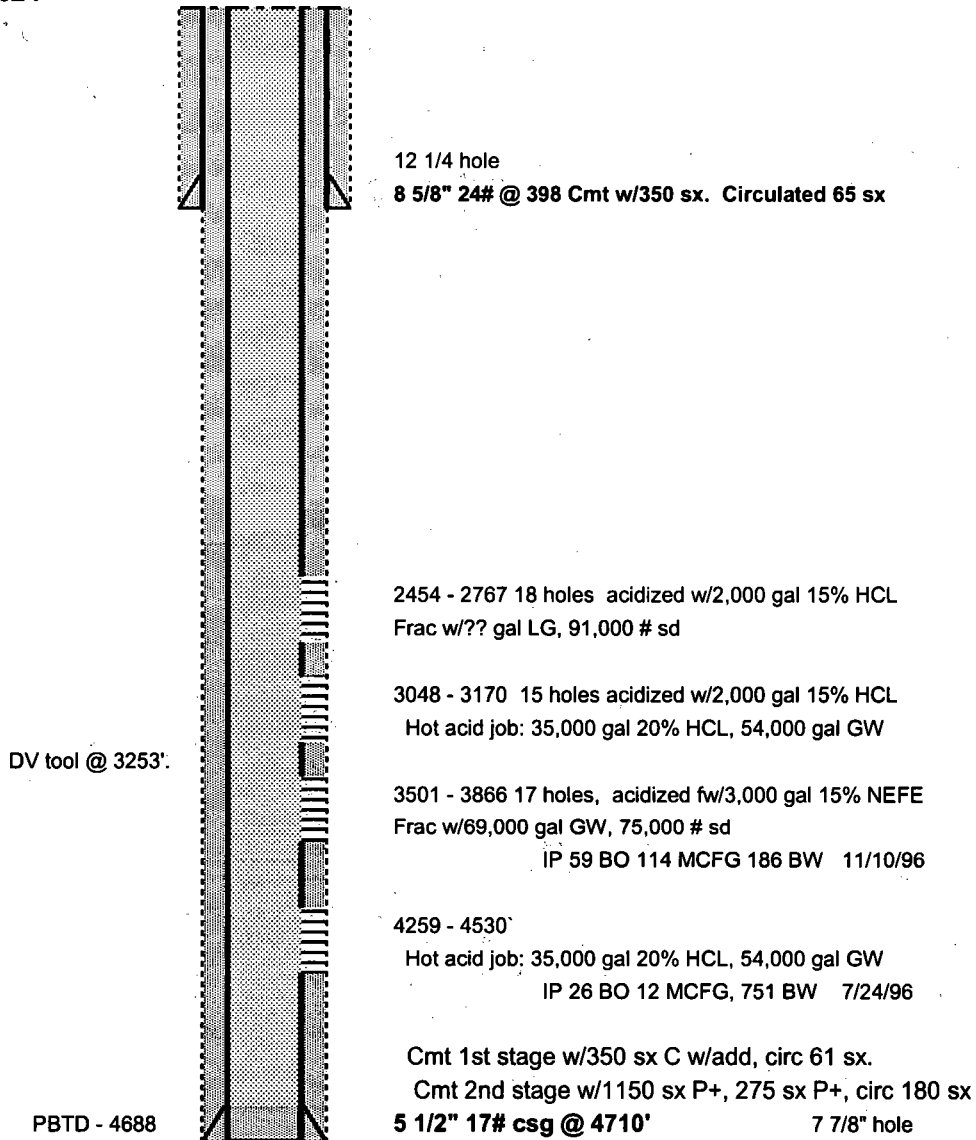
Spud date 6-30-96

Completion date 11/8-96 (recompletion)

Elevation - 3624

Burch Keely Unit 238

Sec 19 T17S R30E, 2310 FNL & 1650 FWL
EDDY CO., NM



COG Operating, LLC

Lease & Well

3001528018

Spud date 8-18-94

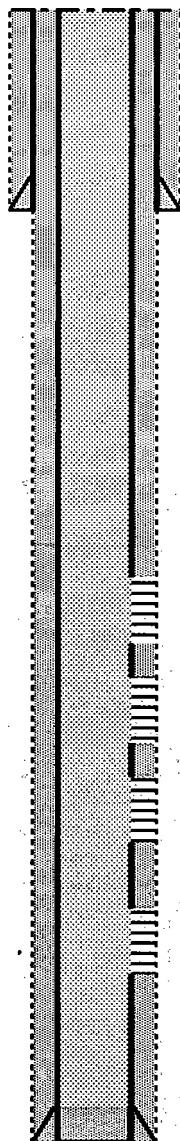
Completion date 9/16/94 (initial completion)

Elevation - 3631

Burch Keely Unit 239

Sec 19 T17S R30E, 1390 FNL & 1650 FWL

EDDY CO., NM



12 1/4 hole

8 5/8" 24# @ 383 Cmt w/300 sx. Circulated 30 sx

2532 - 2586 18 holes acidized w/2,000 gal 15% HCL

Frac w/30,000 gal LG, 36,000 # sd

2977 - 3270 acidized w/2,000 gal 15% HCL

Hot acid job: 18,000 gal 20% HCL, 30,000 gal GW

3754 - 3866 10 holes, acidized fw/3,000 gal 15% NEFE

Frac w/25,960 gal GW, 21,000 # sd

IP N/A

4310 - 4483 20 holes acidized w/2,000 gal 15% NEFE

Hot acid job: 35,000 gal 20% HCL, 54,000 gal GW

IP 28 BO 33 MCFG, 647 BW 9/25/94

Cmt 1st stage w/400 sx C w/add, circ 150 sx.

Cmt 2nd stage w/750 sx HL, 325 sx P+, circ 210 sx

5 1/2" 17# csg @ 4707'

7 7/8" hole

DV tool @ 3269'

PBTD - 4690

COG Operating, LLC

Lease & Well

3001528089

Spud date 9-26-94

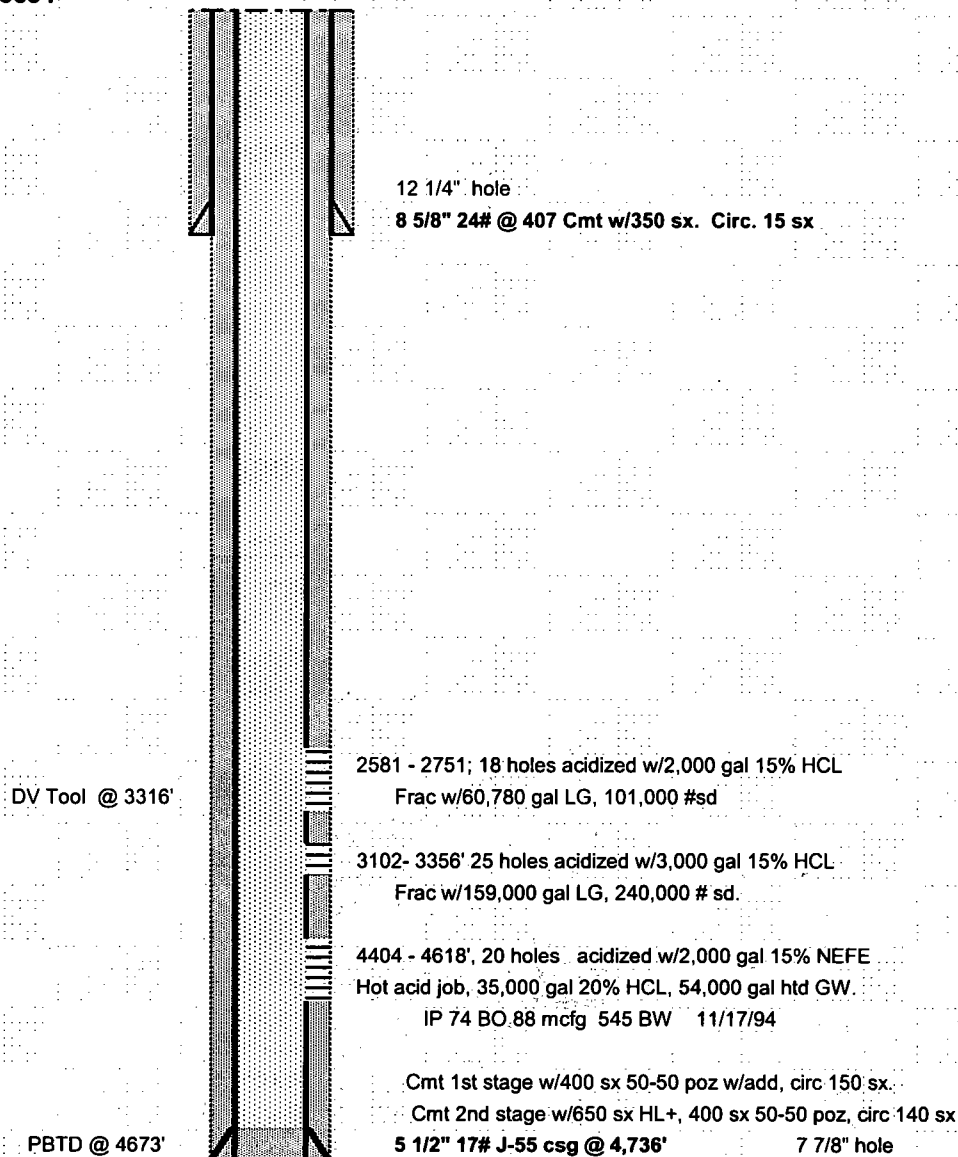
Completion date 11/1/94

Elevation - 3634

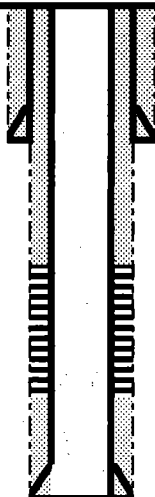
Burch Keely Unit 244

Sec 19 T17S R30E, 1980 FNL & 1345 FEL

EDDY CO., NM



Well: Burch Keely Unit #246
API#: 30-015-28330
Formation: Paddock



Surface

8-5/8" 24# J55 csg set @ 412 ft

Circulated 5 sks

Perfs :

2,462-2,782 acidized w/ 2k gal HCL

3,004-3,172 acidized w/ 2k gal HCL

3,440-3,879 acidized w/ 3k gal HCL

4,210-4,581 acidized w/ 2k gal HCL

Production

5-1/2" 17# J55 csg set @ 4,712 ft

ID: 4.892

Drift ID: 4.767

PBTD @ 4,708 ft

Cemented with: 1,500 sx

Circulated 250 sks

TOC @ 0 ft

COG Operating, LLC

Lease & Well

3001528335

Spud date 9-9-95

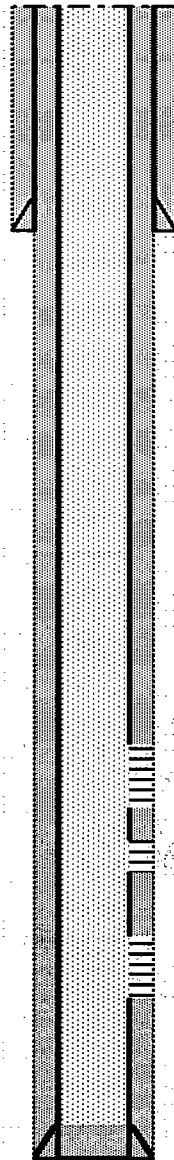
Completion date 10/11/95

Elevation - 3626

Burch Keely Unit 247

Sec 19 T17S R30E, 2310 FSL & 1130 FWL

EDDY CO., NM



12 1/4" hole

8 5/8" 24# @ 375' Cmt w/350 sx. Circ. 65 sx

2466 - 2782; 18 holes acidized w/2,000 gal 15% HCL
Frac w/60,000 gal LG, 92,000 # sd

2946- 3188' 20 holes acidized w/3,000 gal 15% HCL
Hot acid job, 32,000 gal 20% HCL, 54,000 gal htd GW.

4298 - 4633', 20 holes acidized w/2,000 gal 15% NEFE
Hot acid job, 32,000 gal 20% HCL, 54,000 gal htd GW.
IP 68 BO 112 mcfg 520 BW 10/16/95

Cmt w/325 sx 50-50 poz + 1050 sx HL, tail in w/250 sx poz. Circ 188 sx

5 1/2" 17# J-55 csg @ 4,715'

7 7/8" hole

PBTD @ 4703'

COG Operating, LLC

Lease & Well

3001528333

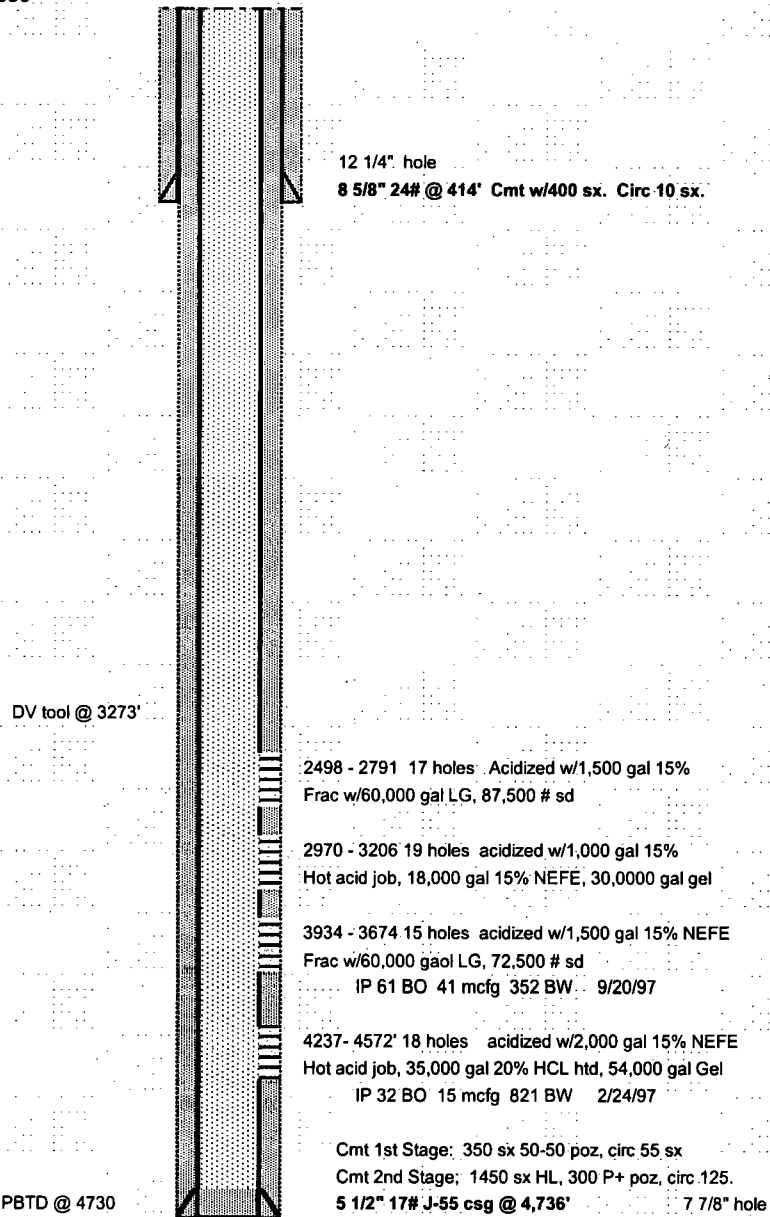
Spud date 12-5-96

Completion date 2/17/97

Elevation - 3630

Burch Keely Unit 262

Sec 19 T17S R30E, 2615 FSL & 1980 FEL
EDDY CO., NM



COG Operating, LLC

Lease & Well

3001529722

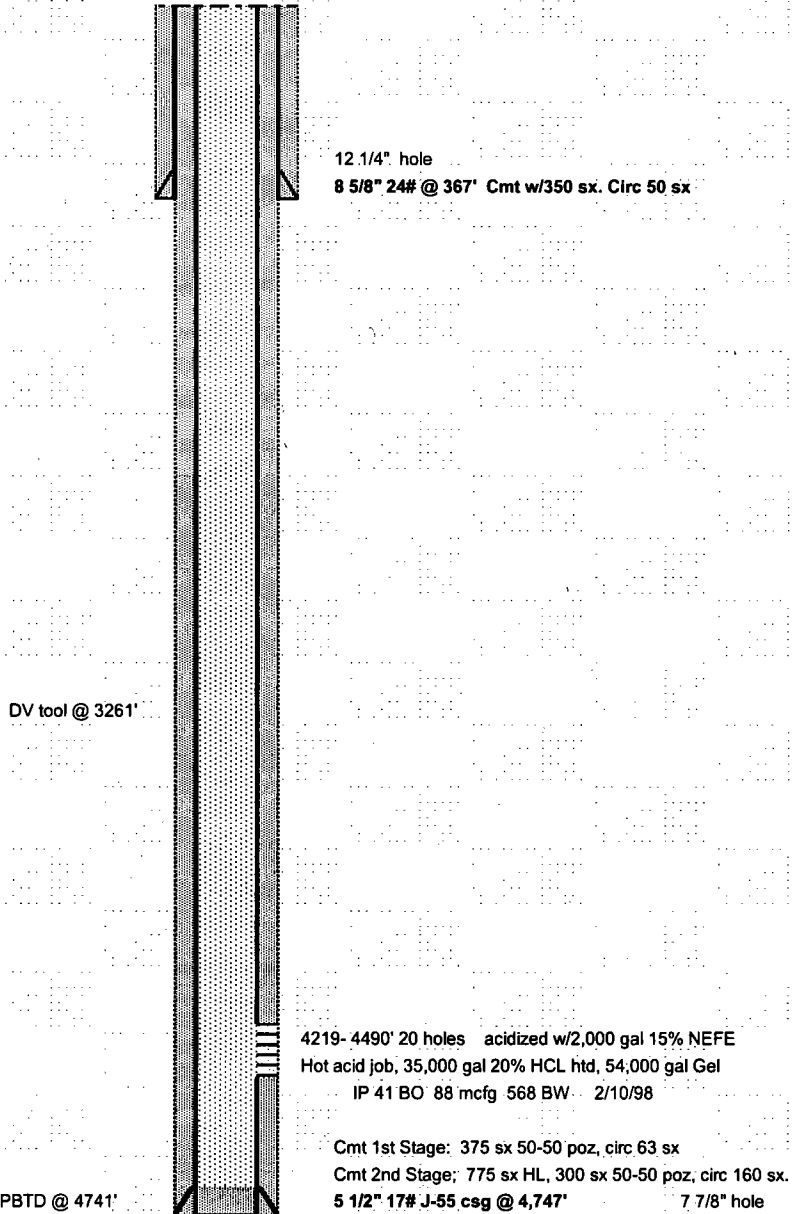
Spud date 1-15-98

Completion date 2-4-98

Elevation - 3625

Burch Keely Unit 282

Sec 194 T17S R30E, 2378 FSL & 290 FWL
EDDY CO., NM



COG Operating, LLC

Lease & Well

3001530731

Spud date 9-14-99

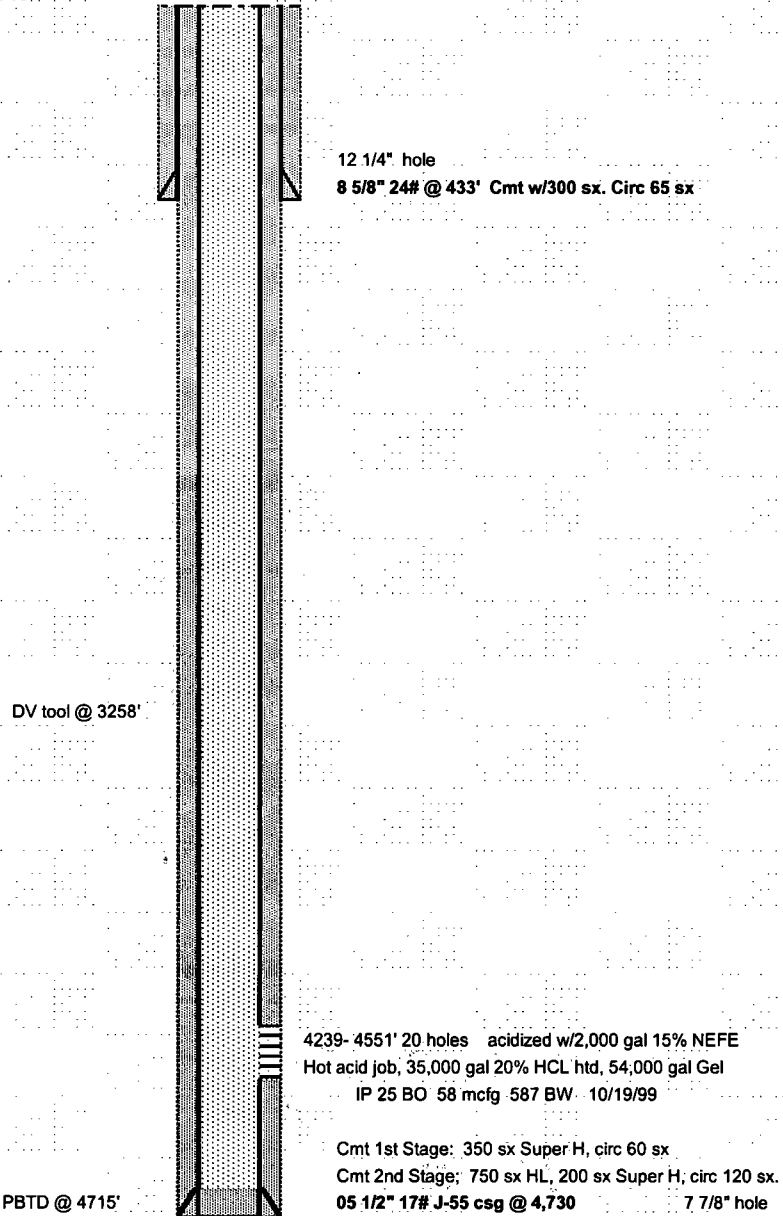
Completion date 10-14-99

Elevation - 3643

Burch Keely Unit 297

Sec 18 T17S R30E, 660 FSL & 11295 FEL

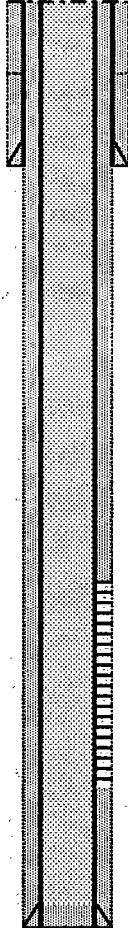
EDDY CO., NM



COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 304

API# 3001530633



8-5/8" SET @ 435

CMT W/ 300 SX PP, CIRC TO SURF

PERF INTERVAL: 4,216-4,542'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

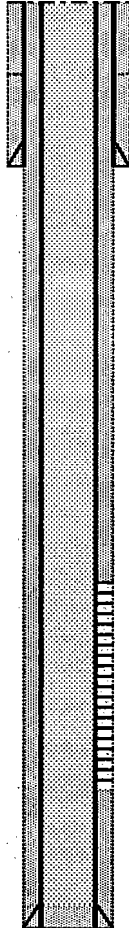
5-1/2" SET @ 4,758

CMT W/ 1,450' SX, CIRC. 250 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 321

API# 3001532098



12-1/4" HOLE
8-5/8" 24# J55 SET @ 408

CMT W/ 400 SX, CIRC. 90 SX

PERF INTERVAL: 4,152-4,458'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

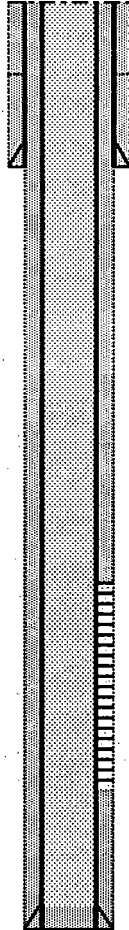
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,666

CMT STAGE 1: 300 SX / STAGE 2: LEAD 700 SX, TAIL 200 SX, CIRC. 125 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 322

API# 3001532108



12-1/4" HOLE
8-5/8" 24# J55 SET @ 402

CMT W/ 300 SX, CIRC. 45 SX

PERF INTERVAL: 4,164-4,498'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

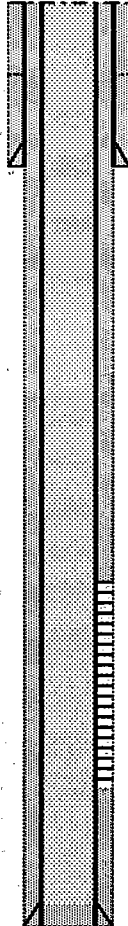
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,737

CMT STAGE 1: 300 SX / STAGE 2: LEAD 700 SX, TAIL 200 SX, CIRC. 125 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 328

API# 3001532425



12-1/4" HOLE
8-5/8" 24# J55 SET @ 355

CMT W/ 300 SX, DID NOT CIRC.

PERF INTERVAL: 4,226-4,523'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

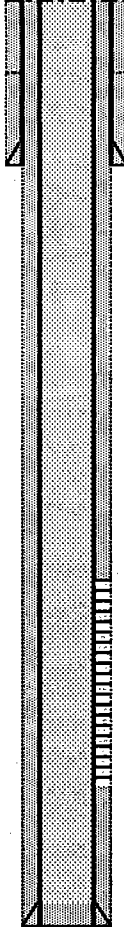
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,817

CMT STAGE 1: 300 SX H / STAGE 2: LEAD 700 SX H/L, TAIL 200 SX H, CIRC. 90 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 346

API# 3001532782



12-1/4" HOLE
8-5/8" 24# J55 SET @ 357

CMT W/ 300 SX, CIRC. 64 SX

PERF INTERVAL: 4,173-4,430'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

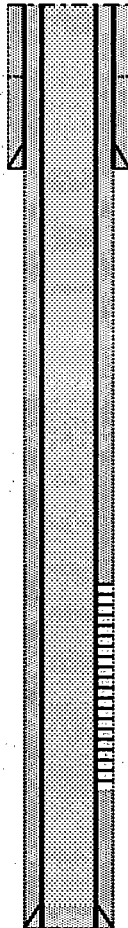
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,713

CMT STAGE 1: 350 SX H / STAGE 2: LEAD 500 SX H/L, TAIL 625 SX H, CIRC. 129 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 347

API# 3001528090



12-1/4" HOLE
8-5/8" 24# J55 SET @ 362

CMT 300 SX P, CIRC. 84 SX

PERF INTERVAL: 4,209-4,468'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HCL, 54K GAL HEATED GEL, 5K GAL COLD ACID

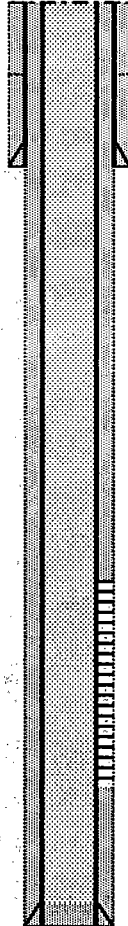
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,705

STAGE 1: CMT 325 SX H / STAGE 2: LEAD W/ 300 SX P, TAIL W/ 550 SX H, CIRC 150 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 351

API# 3001532785



12-1/4" HOLE
8-5/8" 24# J55 SET @ 360

CMT W/ 300 SX P, CIRC. 83 SX

PERF INTERVAL: 4,185-4,491'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

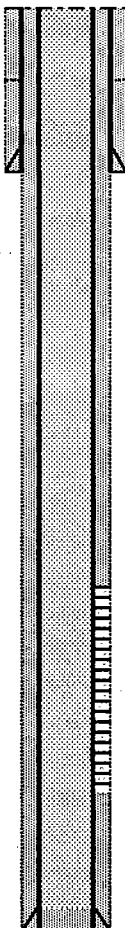
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,700

CMT STAGE 1: 325 SX P / STAGE 2: LEAD 1000 SX H/L, TAIL 500 SX H, CIRC. 215 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 352

API# 3001532786



12-1/4" HOLE
8-5/8" 24# J55 SET @ 353

CMT W/ 300 SX P, DID NOT CIRC.

PERF INTERVAL: 4,176-4,426'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

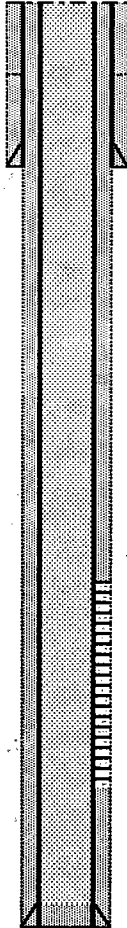
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,651

CMT STAGE 1: 300 SX H / STAGE 2: LEAD 250 SX H/L, TAIL 450 SX H, CIRC. 114 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 354

API# 3001532788



12-1/4" HOLE
8-5/8" 24# J55 SET @ 357
CMT W/ 300 SX P, CIRC. 83 SX

PERF INTERVAL: 4,148-4,461'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

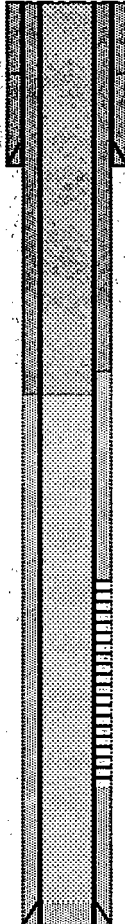
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,718

CMT STAGE 1: 325 SX H / STAGE 2: LEAD 400 SX H/L, TAIL 500 SX H, CIRC. 250 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 355

API# 3001532789



12-1/4" HOLE

8-5/8" 24# J55 SET @ 357

CMT W/ 300 SX P, DID NOT CIRC.

PERF INTERVAL: 4,181-4,465'

COMPLETION METHOD: 3,500 GAL 20% HCL HOT, 5400 GAL HOT GEL, 5000 GAL 15% ACID COLD.

7-7/8" HOLE

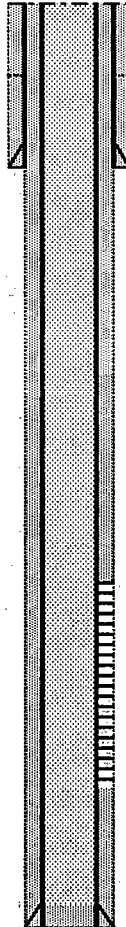
5-1/2" 17# J55 SET @ 4,733

CMT STAGE 1: 375 SX H / STAGE 2: LEAD 425 SX H/L, TAIL 640 SX H, CIRC. 210 SX.

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 357

API# 3001532915



12-1/4" HOLE
8-5/8" 24# J55 SET @ 361

CMT W/ 300 SX P, CIRC. 84 SX

PERF INTERVAL: 4,233-4,518'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

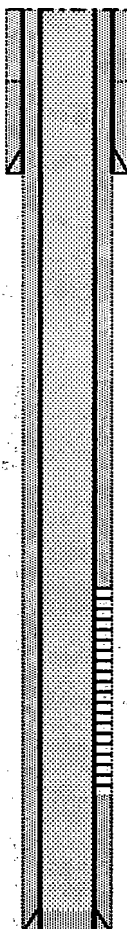
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,699'

CMT STAGE 1: 310 SX H / STAGE 2: LEAD 500 SX H/L, TAIL 500 SX H, CIRC. 56 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 358

API# 3001532916



12-1/4" HOLE
8-5/8" 24# J55 SET @ 355

CMT 300 SX P, CIRC. 84 SX

PERF INTERVAL: 4,237-4,587'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

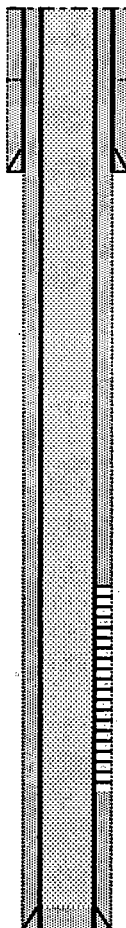
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,818

CMT STAGE 1: 325 SX H / STAGE 2: LEAD 350 SX H/L, TAIL 560 SX H/L, CIRC. 157 SX.

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 359

API# 3001532969



12-1/4" HOLE
8-5/8" 24# J55 SET @ 400

CMT 300 SX P, TOC @ 340'

PERF INTERVAL: 4,183-4,484'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

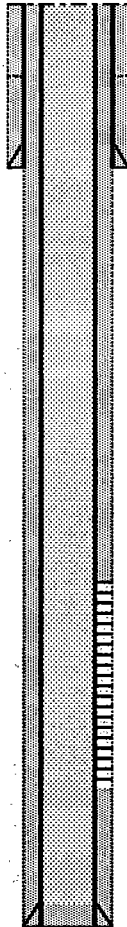
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,728

CMT STAGE 1: 350 SX H / STAGE 2: LEAD 500 SX H/L, TAIL 600 SX H, CIRC. 215 SX.

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 360

API# 3001532970



12-1/4" HOLE
8-5/8" 24# J55 SET @ 405

CMT W/ 300 SX P, DID NOT CIRC.

PERF INTERVAL: 4,249-4,479'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

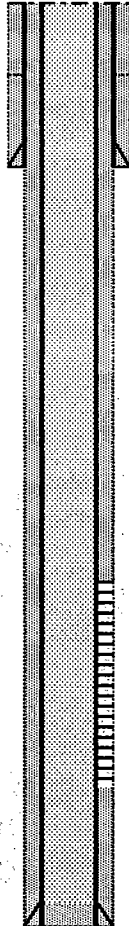
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,729

CMT STAGE 1: CMT 325 SX H / STAGE 2: LEAD W/ 350 SX H/L, TAIL W/ 500 SX H, CIRC 211 SX

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 362

API# 3001532971



12-1/4" HOLE
8-5/8" 24# J55 SET @ 404'

CMT W/ 100 SX THIXO, 300 SX P, DID NOT CIRC.

PERF INTERVAL: 4,286-4,570'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

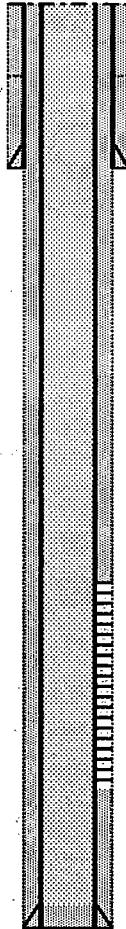
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,836'

CMT STAGE 1: 325 SX H / STAGE 2: DVT DID NOT OPEN

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 379

API# 3001533816



12-1/4" HOLE
8-5/8" 24# J55 SET @ 393

CMT W/ 300 SX P, CIRC. 63 SX

PERF INTERVAL: 4,193-4,515'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

7-7/8" HOLE
5-1/2" 17# JE SET @ 4,716

CMT STAGE 1: 430 SX H / STAGE 2: LEAD 580 SX H, CIRC. 100 SX.

COG Operating, LLC

Lease & Well

3001533812

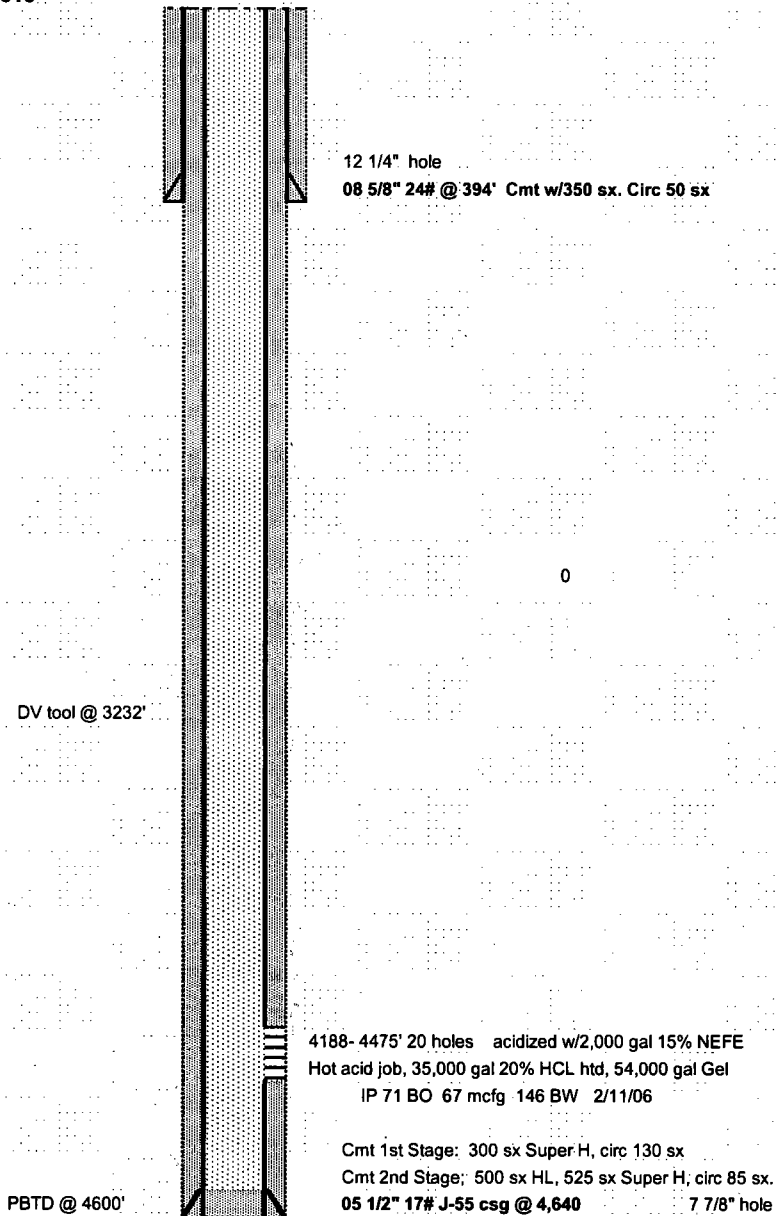
Spud date 11-19-05

Completion date 11/27/05

Elevation - 3618'

Burch Keely Unit 387

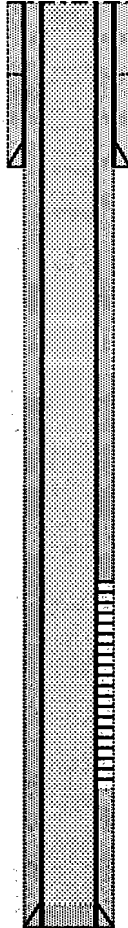
Sec 24 T17S R29E, 330 FNL & 330 FEL Unit A
EDDY CO., NM



COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 388

API# 3001533815



12-1/4" HOLE
8-5/8" 24# J55 SET @ 393'

CMT W/ 300 SX P, DID NOT CIRC.

PERF INTERVAL: 4,183-4,520'

COMPLETION METHOD: ACIDIZE W/ 35K GAL 20% HOT HCL, 5K GAL 15% COLD ACID.

7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,691'

CMT STAGE 1: 375 SX H / STAGE 2: LEAD 550 SX H/L, TAIL 575 SX H, CIRC. 165 SX.

COG Operating, LLC

Lease & Well

3001535440

Spud date 7-13-07

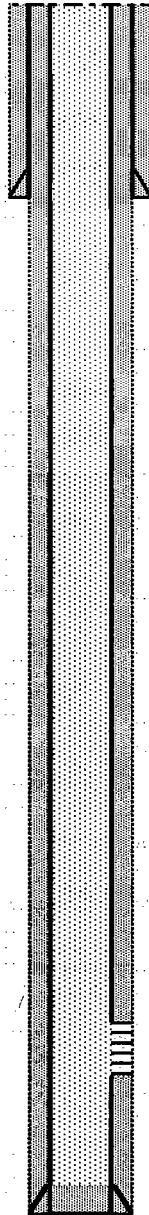
Completion date 8/2/07

Elevation - 3609

Burch Keely Unit 402

Sec 24 T17S R29E, 1170 FNL & 290 FEL Unit A

EDDY CO., NM



12 1/4" hole

08 5/8" 24# @ 352' Cmt w/350 sx. Circ 85 sx

DV tool @ 3173'

4149- 4452' 20 holes acidized w/2,000 gal 15% NEFE

Hot acid job, 35,000 gal 20% HCL htd, 54,000 gal Gel

IP 57 BO 876 mcfg 408 BW 8/8/07

Cmt 1st Stage: 300 sx Super H, circ 82 sx

Cmt 2nd Stage: 500 sx HL, 500 sx Super H, circ 85 sx.

05 1/2" 17# J-55 csg @ 4,662

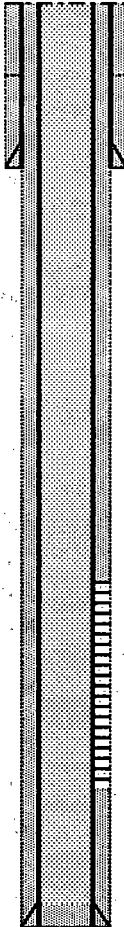
7 7/8" hole

PBTD @ 4647'

COG OPERATING LIMITED LIABILITY CORP

Lease & Well # BURCH KEELY UNIT 403

API# 3001535441



12-1/4" HOLE
8-5/8" 24# J55 SET @ 354
CMT W/ 300 SX P, CIRC. 83 SX

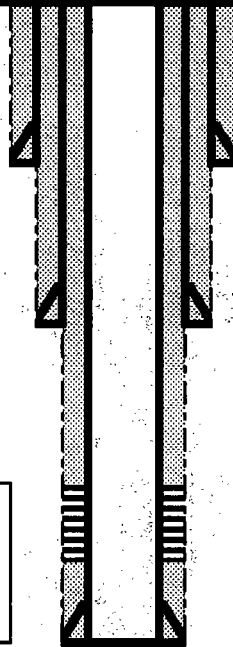
PERF INTERVAL: 4,217-4,526'

COMPLETION METHOD: ACIDIZE W/ 54K GAL 20% HOT HCL, 54K GAL WF 40# GEL, 5K GAL 15% COLD ACID.

7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,687

CMT STAGE 1: 300 SX H / STAGE 2: LEAD 400 SX H/L, TAIL 450 SX H, CIRC. 141 SX.

Well: Burch Keely Unit #542
API#: 30-015-39521
Formation: Paddock



Surface

13-3/8" H40 48# csg set @ 315 ft
Circulated 25 sks
TOC @ 0

Intermediate

8-5/8" J55 24# csg set @ 1,072 ft
Circulated 197 sks
TOC @ 0

Perfs:
4,180 - 4,500'

Production

5-1/2" J55 17# csg set @ 4,663 ft
ID: 4.892
Drift ID: 4.767

Completed with:

Frac w/ 104k gals X-linked, 117k# 16/30
Brown, 19k# SLC

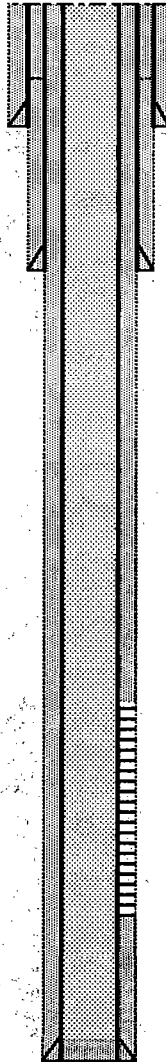
PBTD @ 4,609 ft

Cemented with: Lead: 500 sx Class C / Tail: 400 sx Class C

Circulated 197 sks
TOC @ 0 ft

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 580
API# 3001540270



17-1/2" HOLE
13-3/8" 48# H40 SET @ 351
CMT W/ 400 SX C, CIRC. 20 SX

11 HOLE
8-5/8" 24# J55 SET @ 945
CMT W/ 500 SX C LEAD, 200 SX C TAIL, CIRC. 41 SX

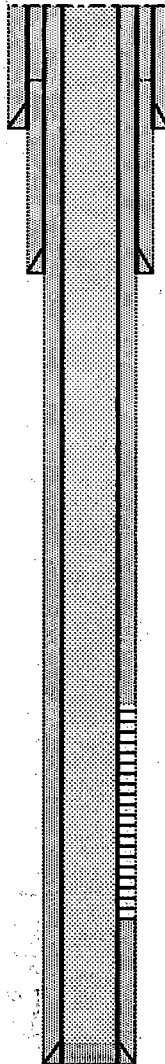
PERF INTERVAL: 4,180-4,430'

COMPLETION METHOD: FRAC W/ 104,226 GAL GEL, 115,999# 16/30 BROWN, 14,994# 16/30 CRC

7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,669
CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 170 SX

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 581
API# 3001540271



17-1/2" HOLE
13-3/8" 48# H40 SET @ 308
CMT W/ 400 SX C, CIRC. 192 SX

11 HOLE
8-5/8" 24# J55 SET @ 1070
CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 160 SX

PERF INTERVAL: 4,270-4,470'

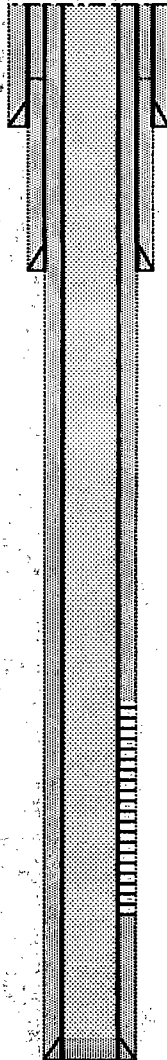
COMPLETION METHOD: FRAC W/ 100,143 GAL GEL, 103,127# 16/30 BROWN, 16,718# 16/30 SLC

7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,672
CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 112 SX.

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 586

API# 3001539908



17-1/2" HOLE

13-3/8" 48# H40 SET @ 307

CMT W/ 400 SX C, CIRC. 134 SX

11 HOLE

8-5/8" 24# J55 SET @ 1096

CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 165 SX

PERF INTERVAL: 4,110-4,360'

COMPLETION METHOD: FRAC W/ 103,674 GAL GEL, 114,215# 16/30 BROWN, 16,763# 16/30 SIBERPROP

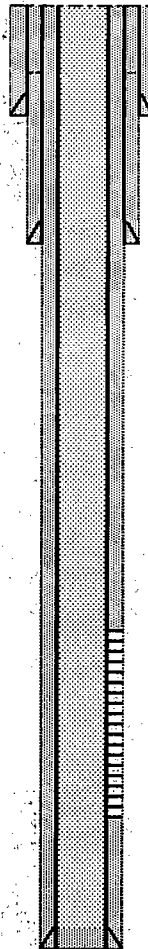
7-7/8" HOLE

5-1/2" 17# J55 SET @ 4,653

CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 228 SX

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 588
API# 3001540702



17-1/2" HOLE
13-3/8" 48# H40 SET @ 304'

CMT STAGE 1: 50 SX C LEAD, 300 SX C TAIL / STAGE 2: 250 SX C LEAD, 350 SX C TAIL, CIRC. 444 SX.

11" HOLE
8-5/8" 24# J55 SET @ 1064

CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 195 SX.

PERF INTERVAL: 4,204-4,454'

COMPLETION METHOD: FRAC W/ 103K GAL GEL, 113K # 16/30 BROWN, 17K # SP.

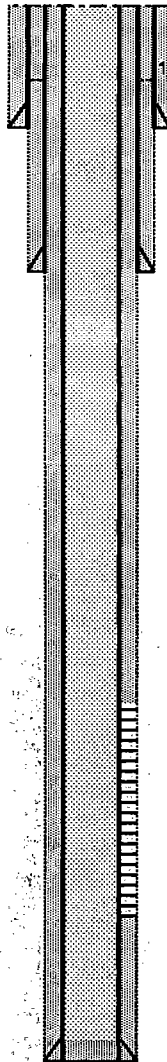
7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,674.

CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 283 SX

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 626

API# 3001540276



17-1/2" HOLE

13-3/8" 54.5# J55 SET @ 269

CMT W/ 400 SX C, CIRC. 146 SX

11" HOLE

8-5/8" 32# J55 SET @ 1049

CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 137 SX.

PERF INTERVAL: 4,173-4,523'

COMPLETION METHOD: FRACED W/ 4,850 BBLS GEL, 224,125# 16/30 BRADY, 26,420# 16/30 SLC.

7-7/8" HOLE

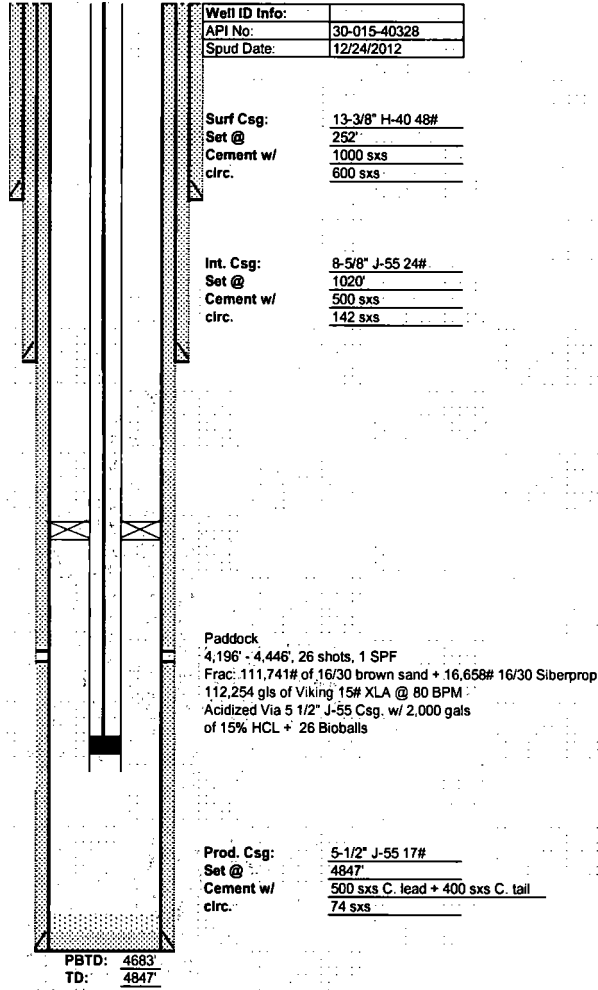
5-1/2" 17# J55 SET @ 4,774

CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 212 SX.

COG Operating LLC

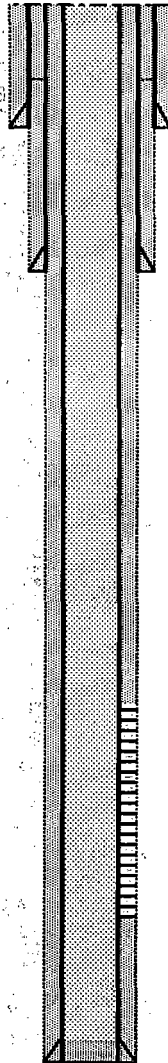
Field	Empire
Location:	
Footage:	909' FNL 149' FEL
Section:	Sec 24 - T17S - R29E
Block:	Unit A
NM Lease:	NMNM-88525X
Completed:	1/15/2013
Reservoir:	Paddock
County:	Eddy County, NM
GL:	3613'
KB:	3640'
KB Calc:	17'
Updated:	G Martin 01/15/2013
History	

Burch Keely Unit #640



COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 643
API# 3001539570



17-1/2" HOLE

13-3/8" 48# H40 SET @ 321

CMT W/ 50 SX C, 300 SX H, 250 SX C, 400 SX C, CIRC. 400 SX

11" HOLE

8-5/8" 24# J55 SET @ 1220

CMT W/ LEAD: 300 SX C, TAIL: 200 SX C, CIRC. 180 SX

PERF INTERVAL: 4,230-4,480'

COMPLETION METHOD: FRAC W/ 107,793 GALS GEL, 107,698# 16/30 BROWN, 13,585# 16/30
SIBERPROP

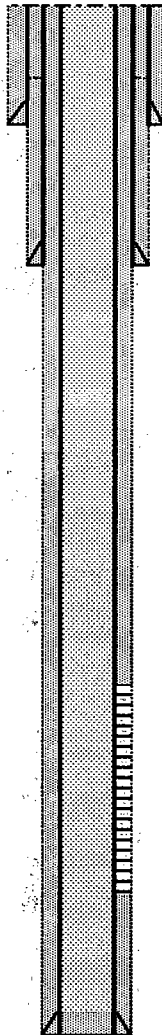
7-7/8" HOLE

5-1/2" 17# J55 SET @ 4,660

CMT W/ LEAD: 500 SX C / TAIL 400 SX C, CIRC. 151 SX

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 644
API# 3001539571



17-1/2" HOLE
13-3/8" 48# H40 SET @ 326

CMT STAGE 1: 300 SX H LEAD, 250 SX CLASS C TAIL / STAGE 2: 400 SX CLASS C, CIRC. 551 SX

11 HOLE
8-5/8" 24# J55 SET @ 1218

CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 139 SX

PERF INTERVAL: 4260-4568'

COMPLETION METHOD: FRAC W/ 184,675 GALS GEL, 199,552# 16/30 BRADY, 27,123# 16/30 SIBERPROP.

7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,815

CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 255 SX.

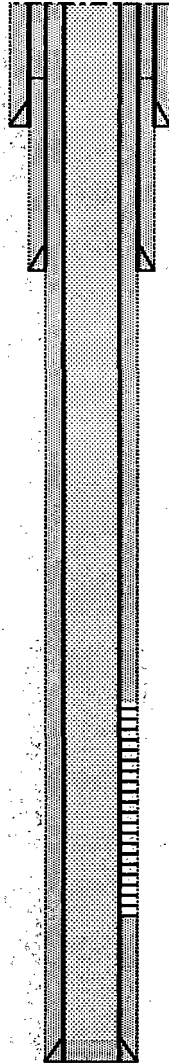
Reservoir: Yeso

Updated: P. Porter 7/30/12

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 651

API# 3001540278



17-1/2" HOLE

13-3/8" 48# H40 SET @ 262

CMT W/ 400 SX C, CIRC. 215 SX

11 HOLE

8-5/8" 32# J55 SET @ 1072

CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 82 SX.

PERF INTERVAL: 4,189-4,464'

COMPLETION METHOD: FRAC W/ 107K GAL GEL, 114K # 16/30 BROWN, 9.5K # SP.

7-7/8" HOLE

5-1/2" 17# J55 SET @ 4,661

CMT W/ 650 SX C LEAD, 400 SX C TAIL, CIRC. 301 SX.

Reservoir: Yeso

Updated: P. Porter 7/18/12

Empire

Burch Keely Unit #654

Reservoir: Yeso

	Location:
Footage:	
Section:	
Block:	
Survey:	
County:	Eddy County, NM
Elevations:	
GL:	
KB:	12
KB Calc:	12

[illegible]

No Deviation greater than 1.5 degrees

Proposed

Tubing Detail (top to bottom)		Footage	Depth
Joints	Description		
	KB	12	12
125	2-7/8" J-55, 6 5/8" tbq	4 062.50	4 074.50
1	2-7/8" Marker Joints	2	2 076.50
2	2-7/8" J-55, 6 5/8" tbq	65	4 141.50
1	2-7/8 X 5-1/2" Tubing Anchor	2.80	4 144.30
11	2-7/8" J-55, 6 5/8" tbq	357.50	4 501.80
1	2-7/8" SN	1.1	4 502.90
1	2-7/8" Cavins Desander D2707-G	19.68	4 522.58
2	2-7/8" Mud Anchor	65.00	4 587.58
			4 587.58

Rod Detail (top to bottom)			
Pumping Unit	Weatherford 320-305-120		
Rods	Description	Footage	Depth
1	1-1/2" X 26' Spray Metal Polish Rod	26	26
1	7/8" Norris 90 steel pony rods	12	38
168	7/8" Norris 90 steel rods	4200	4238
12	1-1/2" Sinker Bars	300	4538
1	1" X 1' Lift Sub	1	4539
1	2-1/2" X 1-1/2" X 20' Trash Pump	20	4559
			4559

[illegible][illegible]

Well ID Info:	
API No:	30-015-40280
Spud Date:	7/3/2012

Surf Csg: 13-3/8" H-40, 48#, STC, 8RD
Set @ 302
Cement w/ 50 sxs Cl C 2% CaCl + 300 sxs Cl C H + 250 sxs Cl C 4% bentonite + 400 sxs Cl C + 2% CaCl
circ. no, 1" top job, pump 304 sxs and circ 33 sxs

Inter Csg: 8-5/8" J-55, 24#, 8RD STC
Set @ 1068
Cement w/ 50 sxs Cl C 2%CaCl + 300 sxs Cl H + 250 sxs Cl C 4% Bentonite + 300 sxs 50:50 POZC
cirt. no, 1" top job in 3 stas 175 sxs, cirt 17sxs

Paddock 4220 - 4470', 180 degree ph, .34 dia, 1 SPF 26 shots

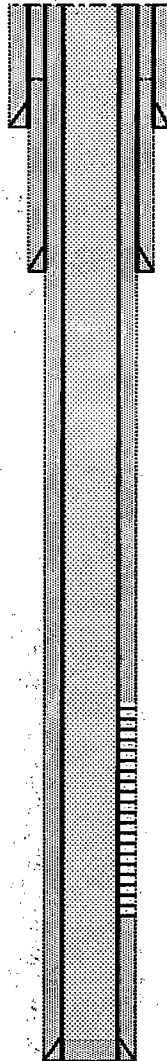
Prod Csg:	5-1/2", 17#, J-55, 8RD LT&C
Set @	4816
Cement w/ circ.	500 sxs Cl C + 400 sxs Cl C 178 sxs

PBTD	4765
TD	<u>4818</u>

Updated: P. Porter 7/26/12

COG OPERATING LLC

Lease & Well # BURCH KEELY UNIT 906
API# 3001540887



17-1/2" HOLE
13-3/8" 54# J55 SET @ 264
CMT W/ 400 SX C, CIRC. 125 SX

11" HOLE
8-5/8" 24# J55 SET @ 1041
CMT W/ 300 SX C LEAD, 200 SX C TAIL, CIRC. 235 SX.

PERF INTERVAL: 4,200-4,500'

COMPLETION METHOD: FRAC W/ 4806 BBL GEL, 213K # 16/30 BRADY, 29K # SIL.

7-7/8" HOLE
5-1/2" 17# J55 SET @ 4,749
CMT W/ 500 SX C LEAD, 400 SX C TAIL, CIRC. 135 SX



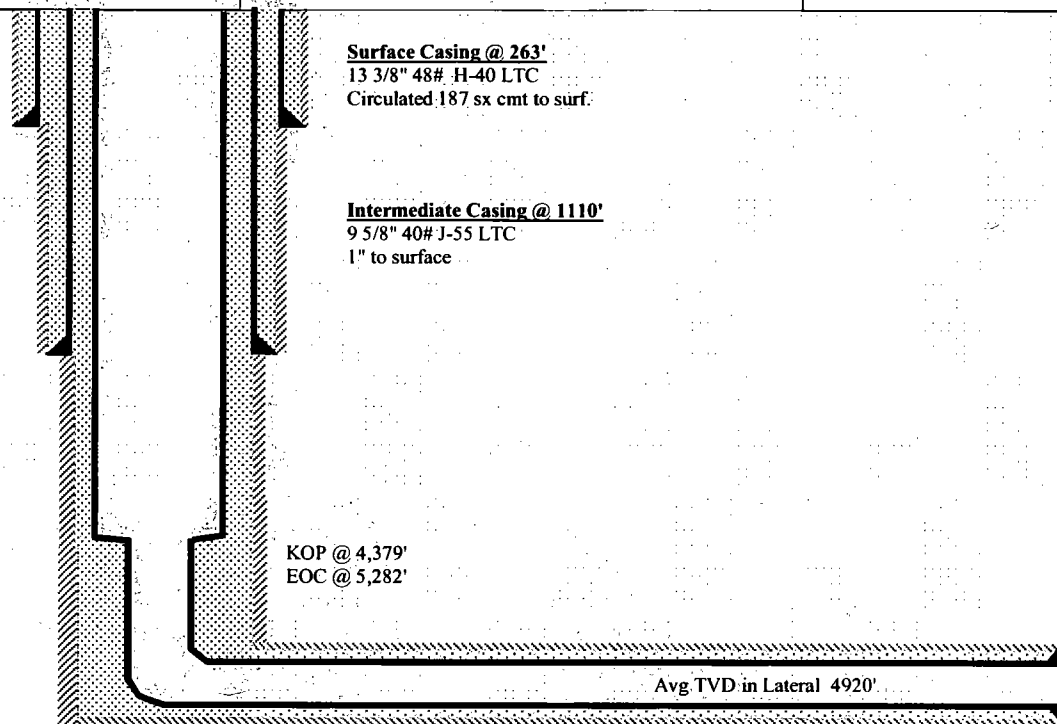
Wellbore at Rig Release

API: 30-015-40888
SPUD: 6/2/13
FRR: 6/16/13
RIG: United 40

Burch Keely Unit #936H
Empire East
Burch Keely Glorieta-Upper Yeso Field
Eddy County, NM

Sec 13, T-17S, R-29E
SHL: 990' FSL & 330' FWL
BHL: 970' FSL & 350' FEL (est)
GL: 3,614'
KB: 3,628'

HOLE SIZE	MW (ppg)	BHST (°F)		EVALUATION
17-1/2"				
12-1/4"				
8-3/4" x 7-7/8"	115 F			



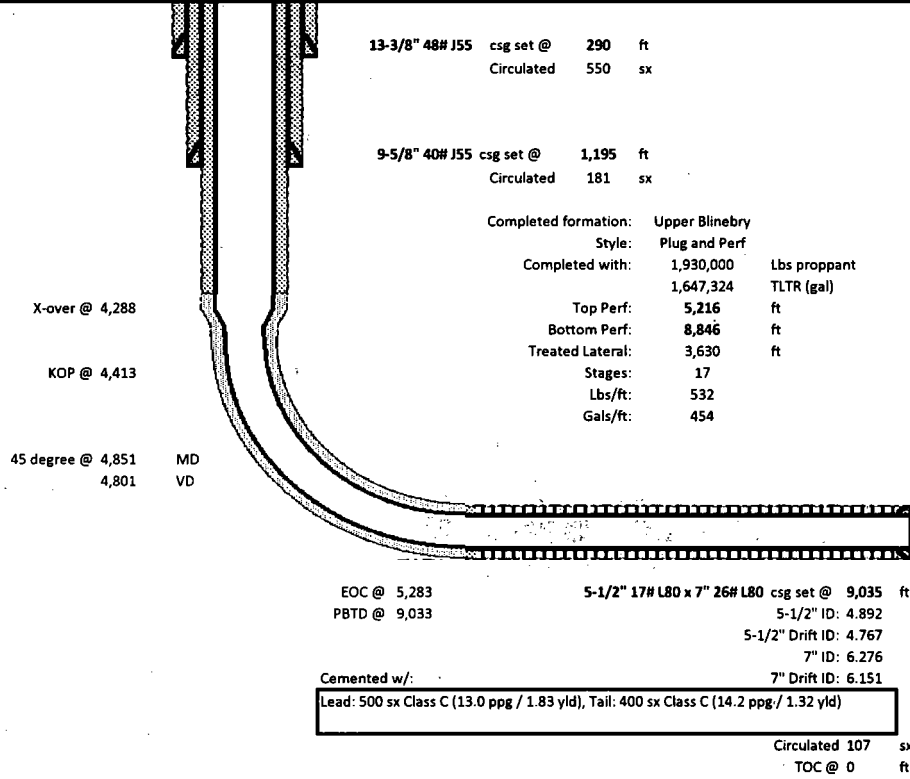
7" x 5-1/2" Production Casing @ 9,260'

FC @ 9,215'
Trigger Toe Sub @ 9,168'
Xover @ 4,382'
7" Marker Joint @ 3,054'

5 1/2" 17# L-80 LTC
7" 26# L-80 LTC
TD @ 9,275'
Circ 173 sxs to surface

Updated by S.Brumley
Date: 6/23/2013

COG Operating LLC
Well: Burch Keely Unit #945H
API#: 30-015-39578



Ports	
1	8846
2	8600
3	8332
4	8112
5	7854
6	7636
7	7375
8	7154
9	7030
10	6902
11	6652
12	6438
13	6177
14	5929
15	5717
16	5467
17	5216

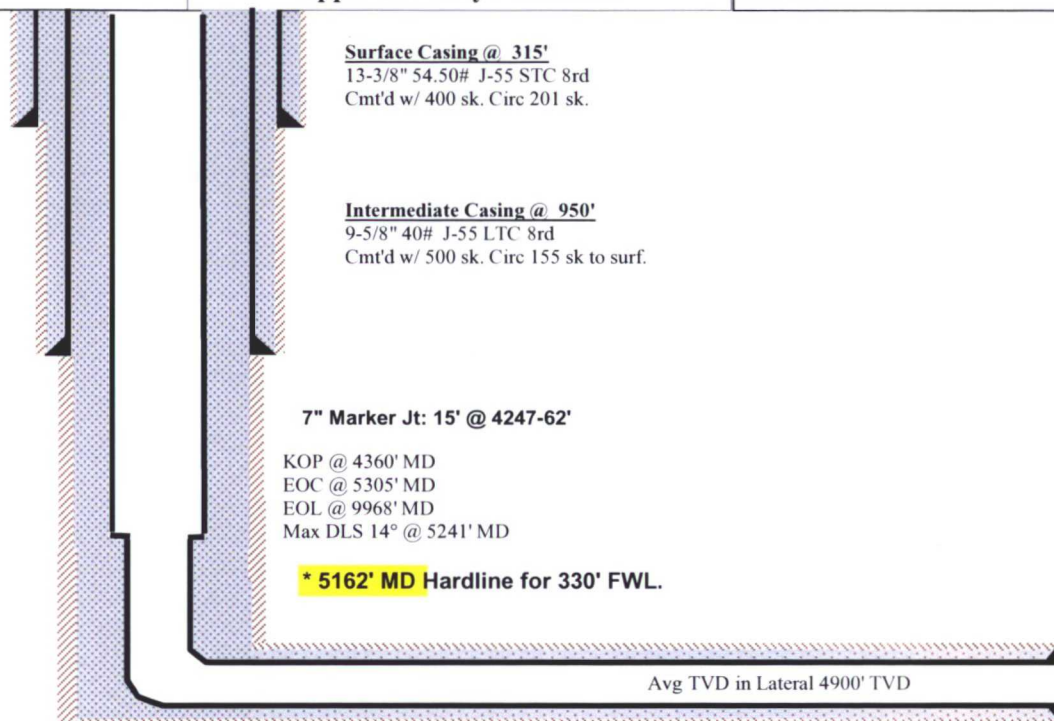
API: 30-015-42240
SPUD: 9-3-14
RR: 9-16-14
RIG: United Drilling #43

Burch Keely Unit #954H
Empire Field
Glorietta-Yeso Field
Eddy County, NM
Upper Blinebry Formation

Surface Loc: Sec 23 ,T17S, R29E
SHL: 507' FNL & 172' FEL

Bottom Loc: Sec 24 T17S, R29E
BHL: 332' FNL & 151' FEL
GL: 3603'
KB: 3617'

HOLE SIZE	MW (ppg)	BHST (°F)		EVALUATION
17-1/2"				
12-1/4"				
8-3/4" x 7-7/8"	120 F			



Updated by	P Figel
Date:	9/17/2014

Note: Fluid in wellbore is 8.4# Fresh Water.



Wellbore at Rig Release

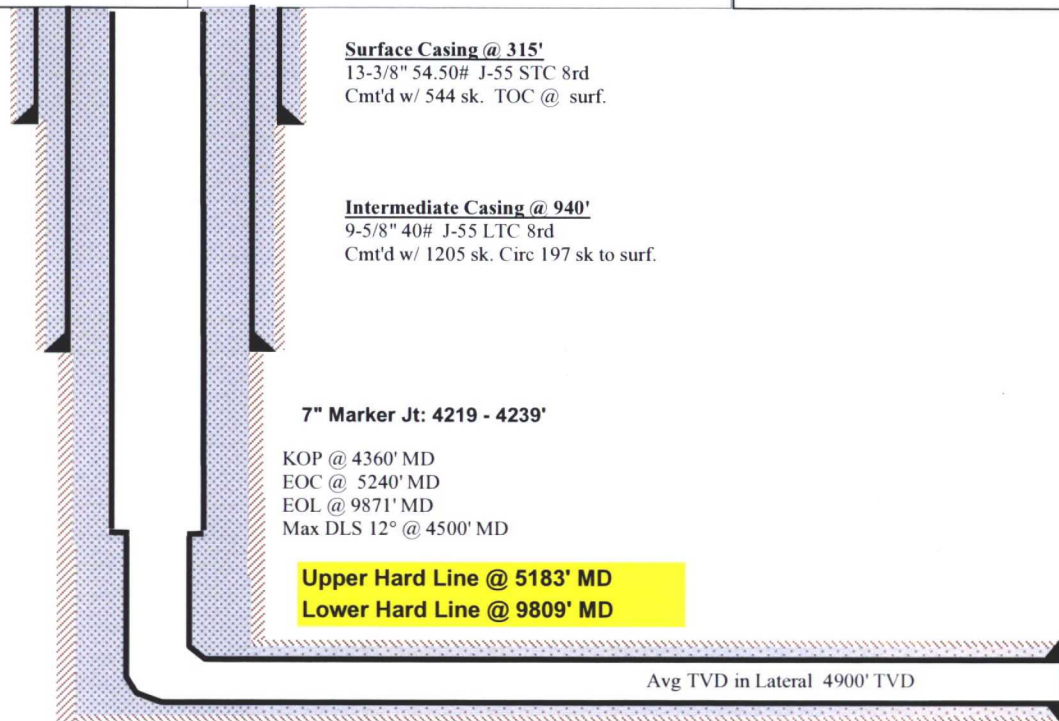
API: 30-015-42241
SPUD: 4-25-14
RR: 5-7-14
RIG: United Drilling #43

Burch Kelly Unit #956H Empire Glorietta-Yeso Field Eddy County, NM

Surface Loc: Sec 23 ,T17S, R29E
SHL: 1650' FNL & 165' FEL

Bottom Loc: Sec 24, T17S, R29E
BHL: 1648' FNL & 290' FEL
GL: 3592'
KB: 3606'

HOLE SIZE	MW (ppg)	BHST (°F)			EVALUATION
17-1/2"					
12-1/4"					
8-3/4" x 7-7/8"	105 F				



7" X 5-1/2" Production Tapered Casing @ 9871'

7" 26# L80 LTC 8rd Surface - 4332'
5-1/2" 17# L80 LTC 8rd 4332 - 9871'
Cmt'd w/ 1550 sk. Circ 80 sk.

FC @ 9822'
7" 20' Marker Joint @ 4219 - 4239'

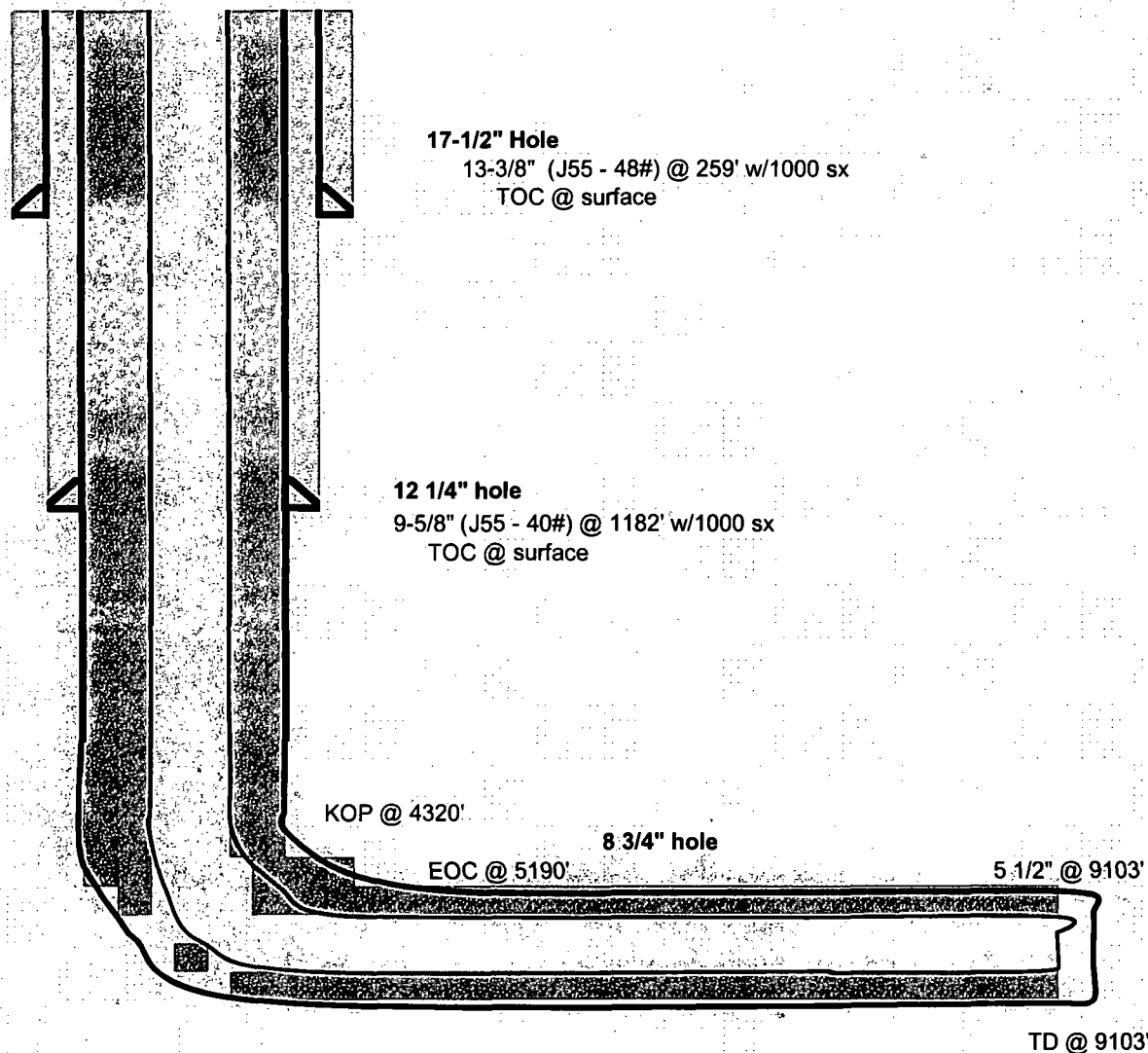
Updated by	P Figel
Date:	5/20/2014

Note: Fluid in wellbore is 8.4# Fresh Water.

CONCHO

Author:	Dehnad	Well No.	963H
Well Name:	BKU	API #:	30-015-39576
Field	BKU	Prop #:	
County	Eddy	Zone:	Paddock
State	NM		
Date	3/1/2012		
GL	3613'		
KB	3631'		

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13 3/8	J55	48	259	1000	Surface
Inter Csg	9 5/8	J55	36	1,182	1000	Surface
Prod Csg	5 1/2	L80	17	9,103	1,450	Surface



Sleeve depths - TMD

1	pump out plug	8,970
1	CMT sleeve	8,883
1	CMT sleeve	8,712
1	CMT sleeve	8,544

Perf depths - TMD

2	7960' - 8350'
3	7375' - 7765'
4	6790' - 7180'
5	6205' - 6595'
6	5620' - 6010'
7	5035' - 5425'

5.5" Composite Plug Depths - TMD

1	8448
2	7863
3	7863
4	7278
5	6693
6	6108
7	5523

COG Operating LLC

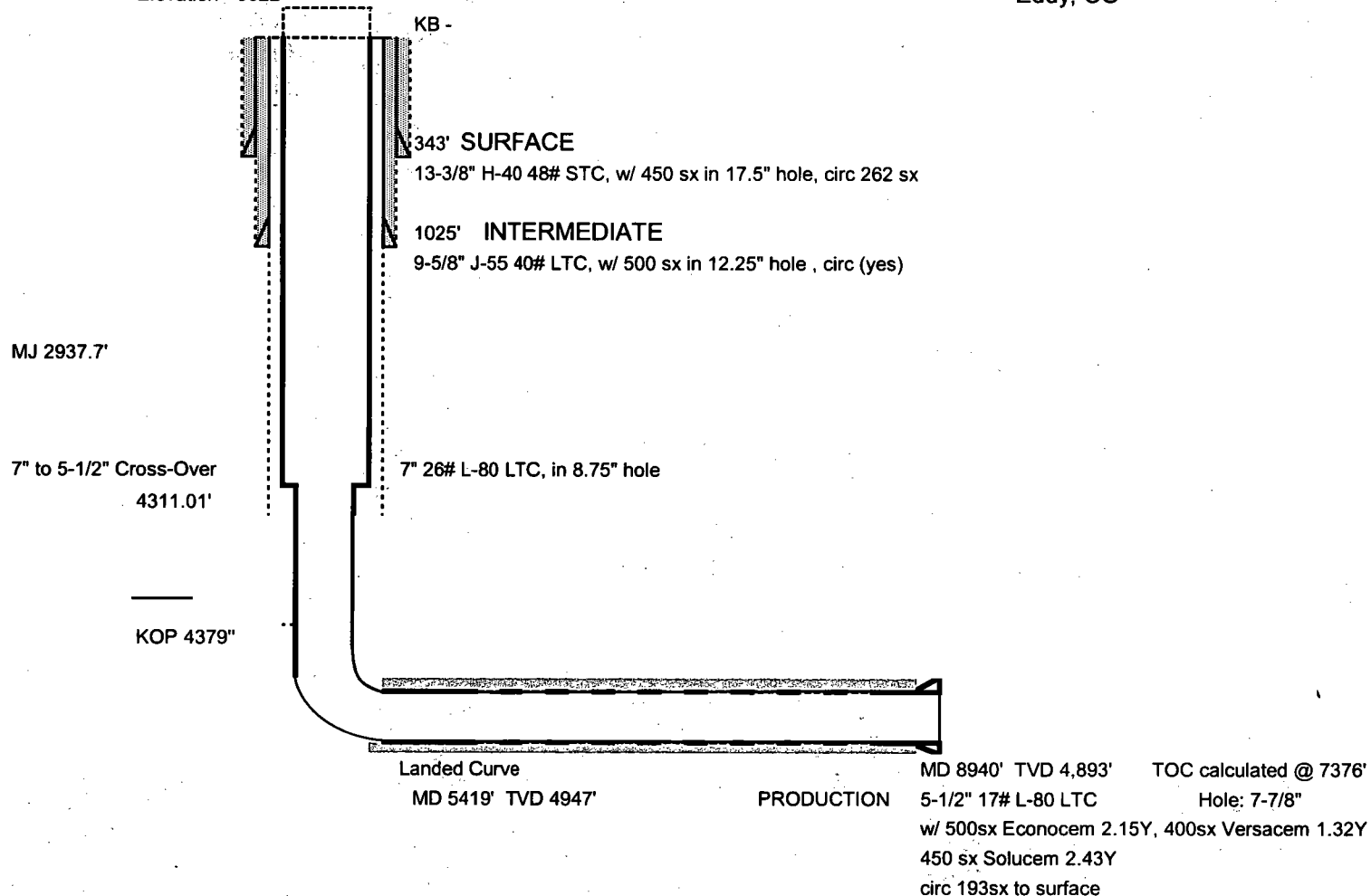
Lease & Well # BKU #965H WBD

Spud - 02/08/2013
Elevation - 3622'

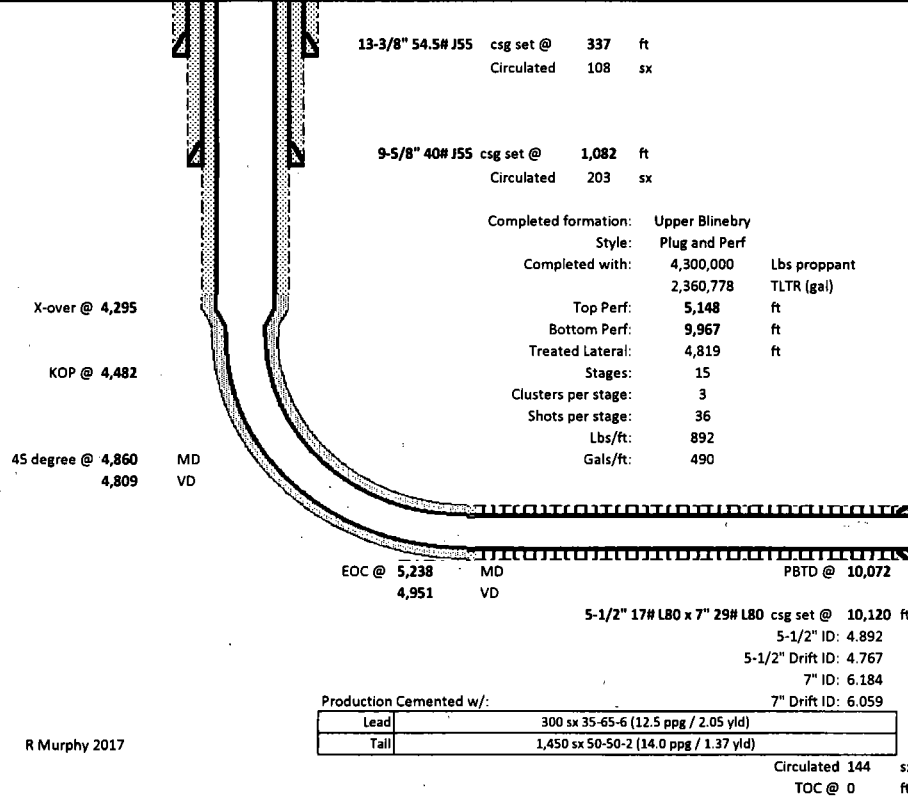
AFE# 000769

API # 30-015-40973

Unit H S19 T17S R30E, 2350 FNL, 493 FEL
Eddy, CO



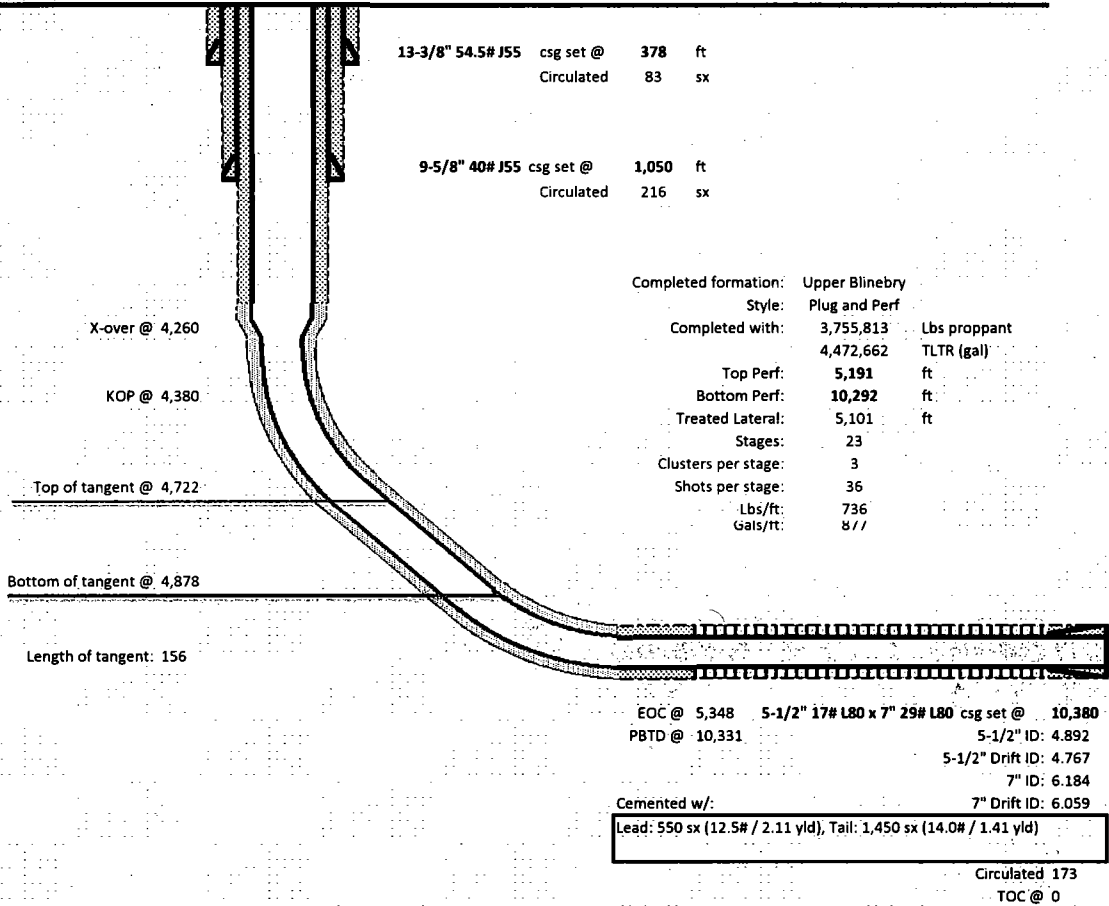
COG Operating LLC
Well: Burch Keely Unit #935H
API#: 30-015-42748



Ports	
1	
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16	
17	

R Murphy 2017

COG Operating LLC
Well: Burch Keely Unit #937H
API#: 30-015-42759



COG Operating LLC

Lease & Well

3001504188

Burch Keely Unit 28

Eddy Co., NM

Sec 18 O T17S R30E 660 FSL & 1980 FEL

SPUD - 9-14-43

Completion - 11-30-43

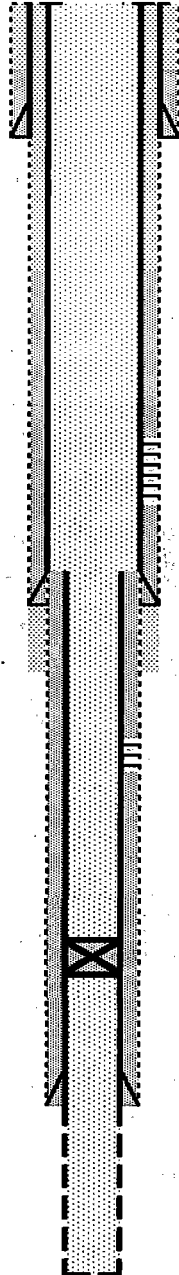
Elevation - 3650' DF

Calc TOC @ 386'

7" Calc TOC @ 1,771'

Shot 5 1/2" csg off @ 2,835'
9/14/1973

5 1/2" TOC @ 3095', T.S.
Resqueezed w/50 sx, no T.S.
Sep-57



8 5/8" 28 # @ 509', 50 sx C

50 X 1.32 = 66 cu ft. 66 -25% =49.5

49.5 X 2.4889 =123' fill

2470 - 3298', 62 holes

Gas injector well between 2-28-51 and 12-31-51

100 X 1.32 = 132 cu ft. 132 - 30% = 92.4

92.4 X 12.2231 =1,129' fill

7" 20# @ 2900', cmt w/100 sx

Shot pay 3121 - 3152 w/200 qts Nitro

Original TD @ 3185'

Flowed 15 BOPD 12-2-43

2470 - 3298', 62 holes

Frac'd w/100 K gals GBW & 106 K # sd

P 45 BOPD 10-3-73

DBP @ 3820' w/3 sxs cmt. 9-23-73

132 X 33% =43.9. 43.9 X 25.2348 = 1108' fill

5 1/2" 14# @ 4,203'. Cmt w/100 sx

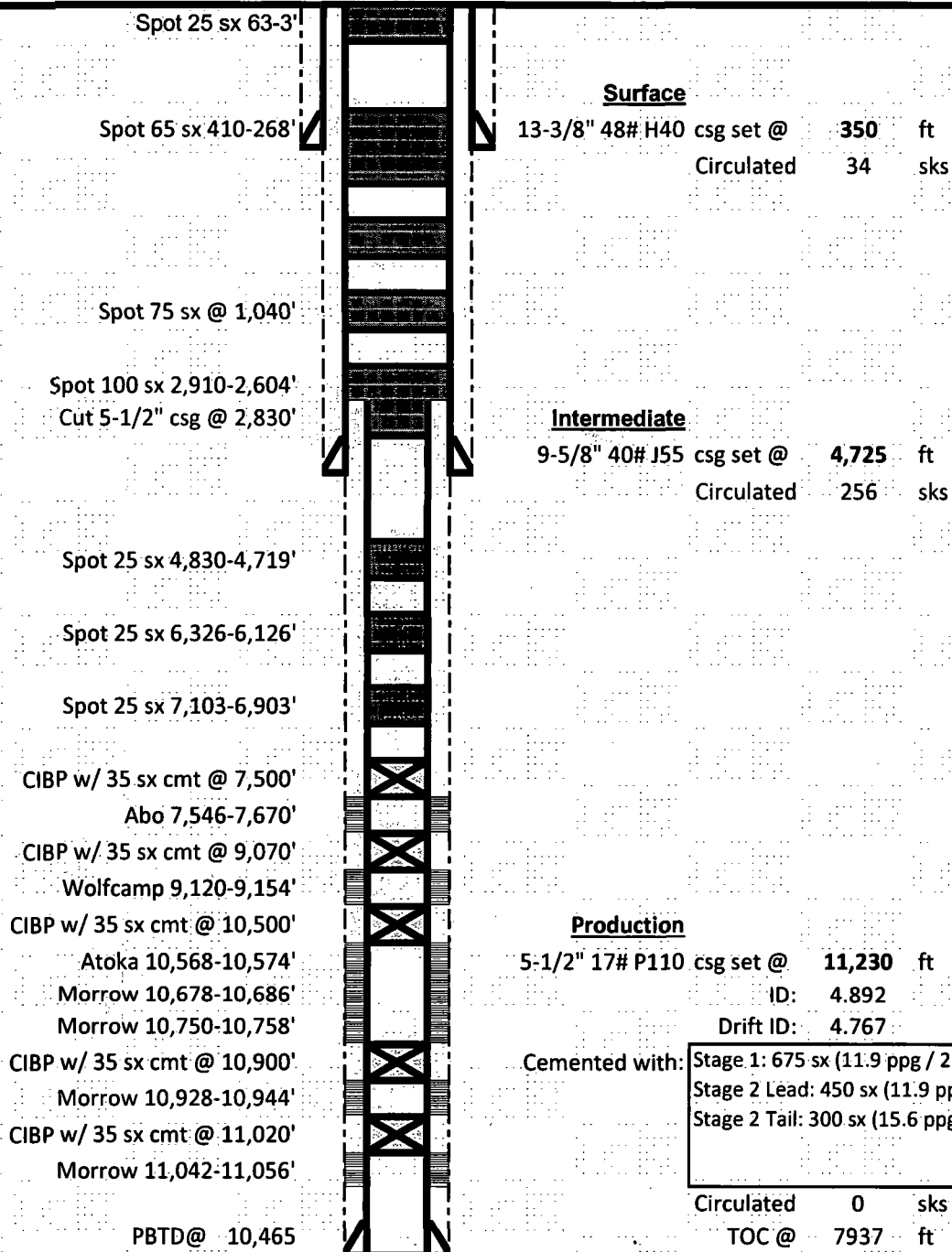
9/3/1957

Drill OH to 4243' acidized w/2,000 gal, frac w/42K gal, 60K# sd

9/19/1957

Flowed 38 BO & 308 BW 1-31-58

Well: Grayburg Deep Unit #18
API#: 30-015-34905
Formation: Morrow/Atoka/Abo/Wolfcamp





Cimarex Energy Co. of Colorado

Grayburg Deep Unit #17

API 30-015-34214

SL = 1990' FSL & 445' FWL Sec 19 T-17-S R-30-E

BHL = 2300' FSL & 660' FWL Sec 19 T-17-S R-30-E

Eddy County, NM

GL 2' KB 29'

J. Prwet

6/9/2015

13 3/8" 48# H-40 CSG @ 541'
Cmt w/ 220 sx 65/35 Poz "C"
Tail w/ 205 sx "C", Circulated

9 5/8" 40# K-55 & L-80 csg @ 4805'
2331 sx 35:65 Poz "C"
Tail w/ 300 sx "H"
Circulated

TOC = 7000'

DV TOOL @ 7954'

THRUSTER ~ 500'
T/YATEZ ~ 1085'
T/S.A. ~ 2690'
T/YE30 ~ 4200'
T/ABO ~ 6030'
T/WC ~ 7680'
T/SJWN ~ 10220'
T/MREW ~ 10635'

5 1/2" N-80 - 17.0 PPF - LT&C @ 11,300'

DV TOOL @ 7954'

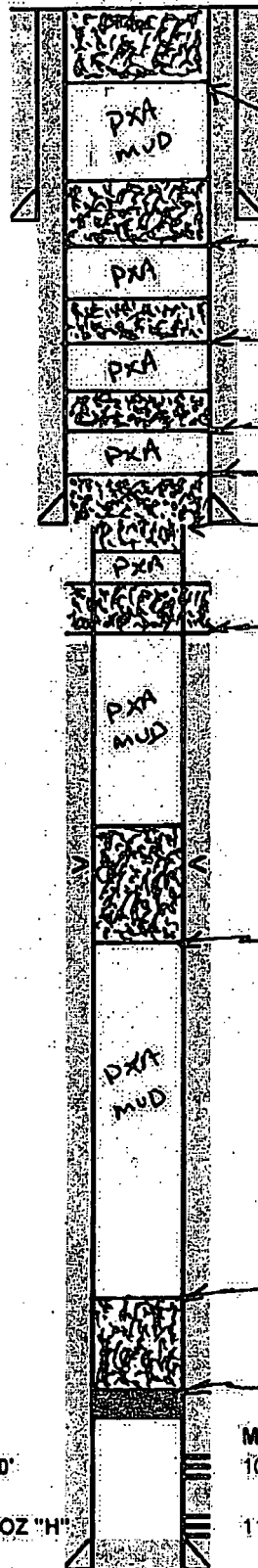
Cmt 1st Stage w/ Lead :560 sx 35:65 POZ "H"

Tail : 500 sx TXI Lite

Cmt 2nd state w/ 800 sxs 35:65 POZ "H" sx

Tail : 500 sx "H"

8 3/4" hole TD @ 11,300'



PBTD: 11,180'

TD: 11,300'

MORROW PERFS:

10,981' - 10,993' 72 holes (1/25/2008)

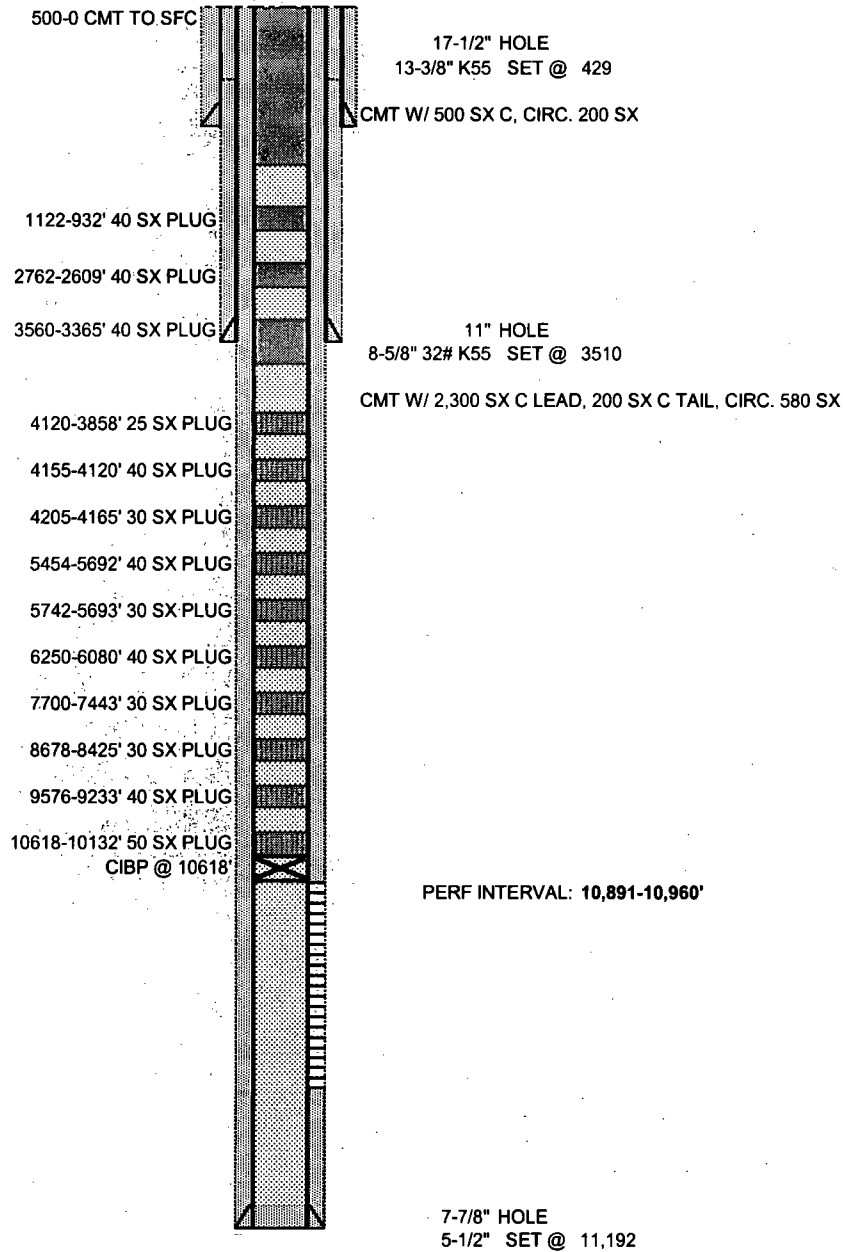
11,005' - 11,020' 96 holes (10/15/2005) ✓

DAE 06/10/15

CONOCOPHILLIPS COMPANY

Lease & Well # GRAYBURG DEEP UNIT 10

API# 3001525796

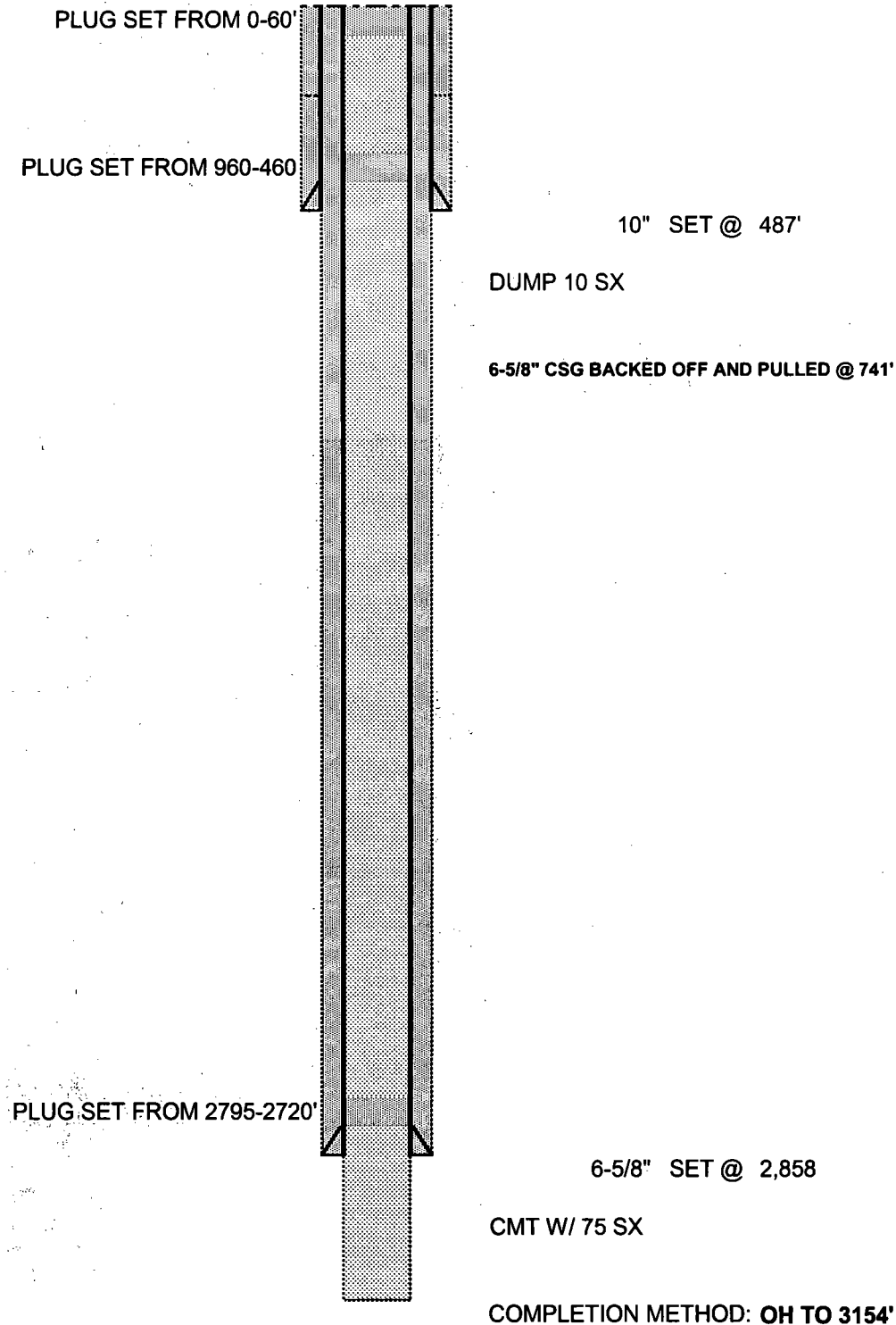


CMT STAGE 1: 450 SX LEAD / STAGE 2: 500 SX H LEAD, 100 SX C TAIL, DVT @ 9526, TOC @ 9526.

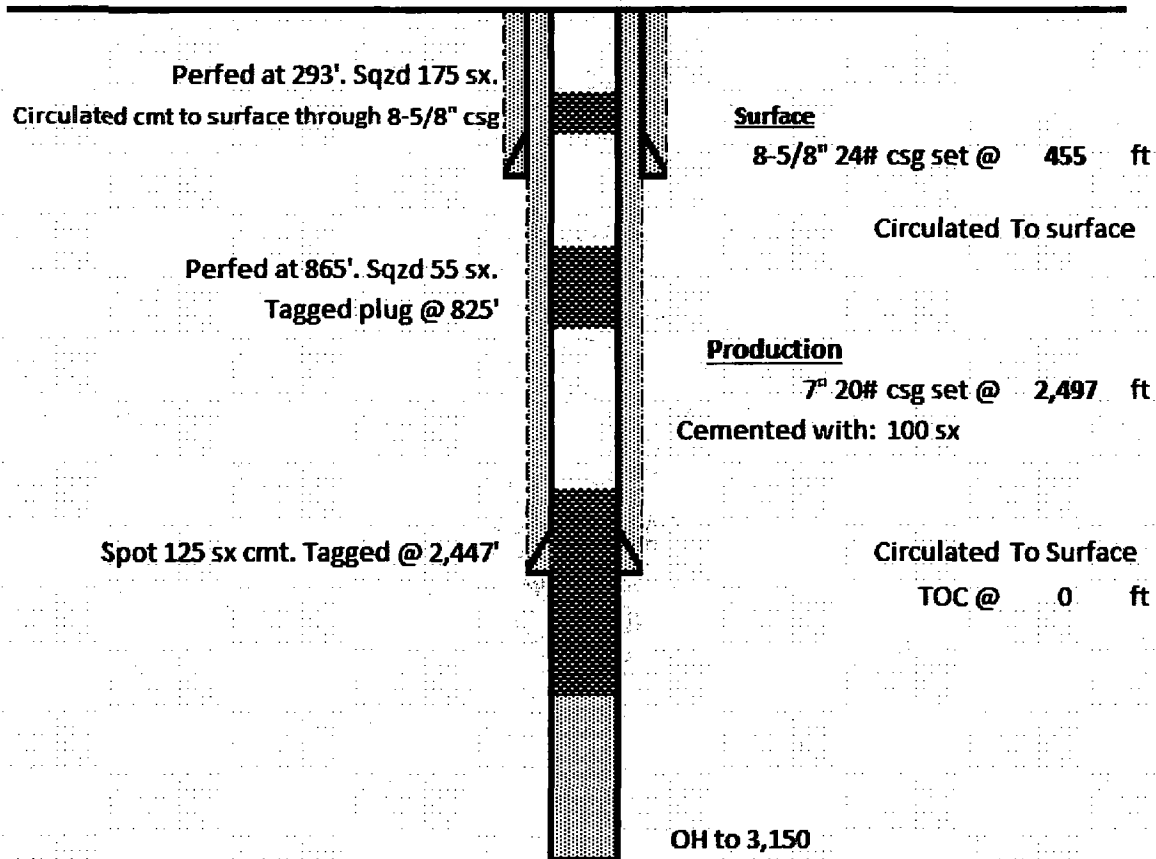
GENERAL AMERICAN OIL COMPANY

Lease & Well # BURCH-FEDERAL A 5

API# 3001504197



Well: Burch Federal A #23
API#: 30-015-04207
Formation: GB/SA



GENERAL AMERICAN OIL COMPANY

Lease & Well # BURCH-FEDERAL A 24

API# 3001504208

PUMPED 150 SX INTO FORMATION

905-864' SQUEEZED 55 SX

PLUG SET FROM 3183-2216'

8-5/8" 24# SET @ 482

CMT W/ 75 SX

7" 20# SET @ 2514'

CMT W/ 100 SX

COMPLETION METHOD: OH TO 3183'

MARBOB ENERGY CORPORATION

Lease & Well # BURCH KEELY UNIT 93

API# 3001504205

FORMERLY NAMED BURCH A

13

0-60' CIRCULATE 70 SX CMT

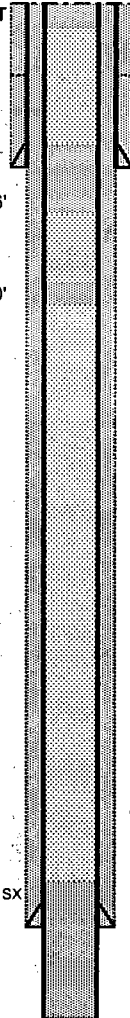
50 SX @ 478', TAG TOC @ 346'

SQUEEZE 50 SX CMT @ 910'

2785-2441' SPOT AND TAG 85 SX

8-5/8" SET @ 478'
CMT W/ 50 SX

7" SET @ 2660'
CMT W/ 100 SX

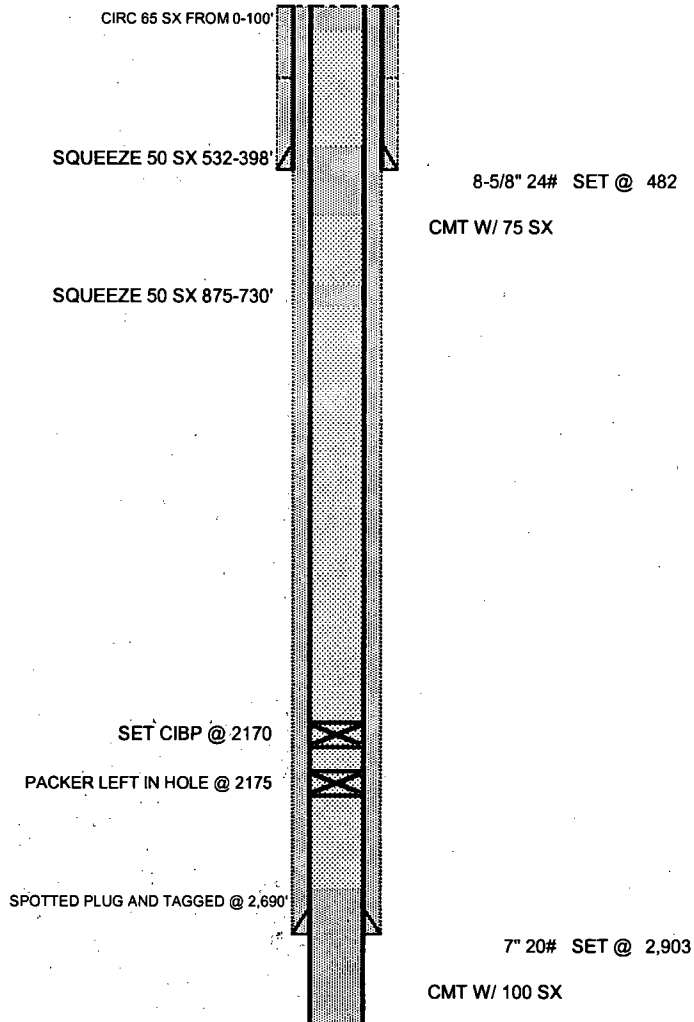


MARBOB ENERGY CORPORATION

Lease & Well # BURCH KEELY UNIT 30

API# 3001504191

Formerly Named BURCH A 16



MARBOB ENERGY CORPORATION

Lease & Well # BURCH KEELY UNIT 60

API# 3001504195

FORMERLY NAMED BURCH-FEDERAL A 3

CIRCULATED CMT FROM 0-60

425-306' SQUEEZED 170 SX

875-810' SQUEEZED 50 SX

10" SET @ 372

35 SX PLUG SET FROM 2858-2690'

6-5/8" SET @ 2,783

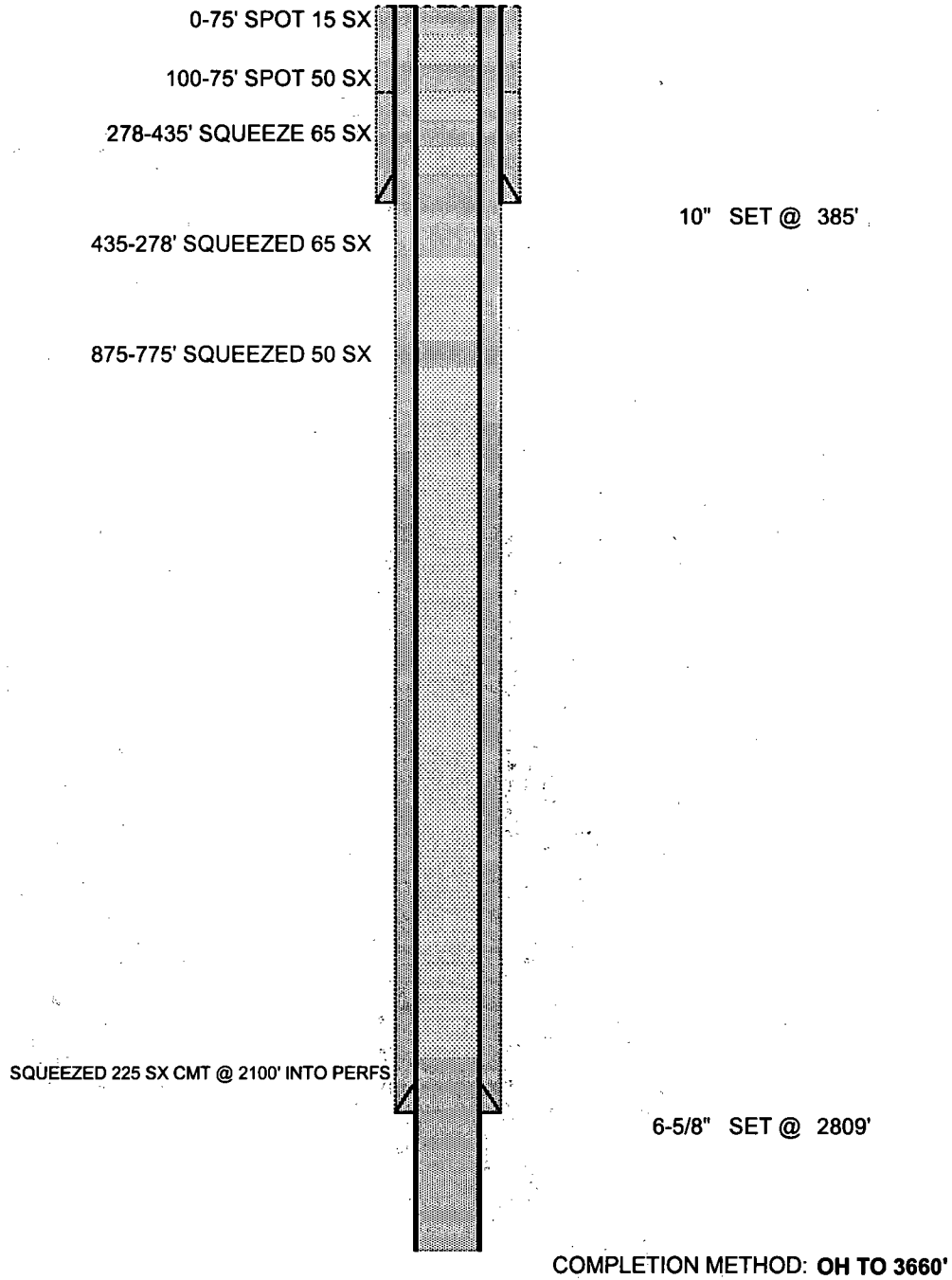
COMPLETION METHOD: OH TO 3100'

MARBOB ENERGY CORPORATION

Lease & Well # BURCH KEELY UNIT 59

API# 3001504196

FORMERLY NAMED BURCH-FEDERAL A 4



PHILLIPS PETROLEUM COMPANY

Lease & Well # BURCH-FEDERAL A 8
API# 3001504200

SQUEEZE 175 SX & CIRC. 155 SX AT 495'

SPOT 25 SX PLUG AT 800'

SQUEEZE 45 SX FROM 1075-975'

SPOT 25 SX PLUG FROM 1300-1200'

8-1/4" 32# SET @ 445'
CMT W/ 50 SX

SPOT & TAG 120 SX CMT FROM 2790'-2198'

7" 20# SET @ 2825'
CMT W/ 100 SX

COMPLETION METHOD: OH TO 3225, PERF

VII.

COG Operating, LLC
Ronco Federal SWD #1
Lease # New Drill
API# New Drill
Sec 19, T17S, R30E, Unit C
600' FNL & 1,650' FWL
Eddy County, NM

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - **Average daily rate/volume 10,000 to 15,000 BWPD, Maximum daily rate/volume 20,000 BWPD**
2. Whether the system is open or closed;
 - **Closed System**
3. Proposed average and maximum injection pressure;
 - **Average injection pressure - Vacuum, Maximum injection pressure 1726 psig**
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water; and,
 - **Produced water from the Yeso formation.**
 - **We do not anticipate incompatibility issues because we currently have similar SWD wells in the area that dispose of Yeso produced water in the Cisco/Canyon.**
 - **Existing Cisco/Canyon SWD wells: Empire State SWD 15 #1 30-015-39771, Saber Federal #001 30-015-27882**
 - **Please see attached Yeso produced water analysis. (BKU 724, BKU 392)**
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
 - **Chemical Analysis for the disposal zone formation water is attached**



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC - NM	Sample #:	46992
Area:	Artesia	Analysis ID #:	45126
Lease:	Empire Fed.		
Location:	SWD #3		0
Sample Point:	WIPD		

Sampling Date: 5/10/2017		Anions		mg/l	meq/l	Cations		mg/l	meq/l
Analysis Date: 5/20/2017		Chloride:		116388.4	3282.89	Sodium:		54910.0	2388.45
Analyst: Catalyst		Bicarbonate:		219.0	3.59	Magnesium:		2161.0	177.77
TDS (mg/l or g/m3): 190966.6		Carbonate:				Calcium:		14390.0	718.06
Density (g/cm3): 1.132		Sulfate:		1380.0	28.73	Potassium:		1037.0	26.52
Hydrogen Sulfide: 51		Borate*:		178.7	1.13	Strontium:		304.5	6.95
Carbon Dioxide: 230		Phosphate*				Barium:		0.0	0.
Comments:		*Calculated based on measured elemental boron and phosphorus.				Iron:		0.0	0.
		pH at time of sampling:				Manganese:		0.000	0.
		pH at time of analysis:				Conductivity (micro-ohms/cm):		209000	
		pH used in Calculation:				Resistivity (ohm meter):		.0478	
		Temperature @ lab conditions (F):							

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.36	11.95	0.15	222.90	0.17	193.18	0.15	49.53	0.00	0.00
100	0.44	14.86	0.09	138.11	0.17	194.64	0.13	44.00	0.00	0.00
120	0.52	17.48	0.04	60.02	0.20	219.70	0.13	42.25	0.00	0.00
140	0.60	20.40	0.00	0.00	0.25	261.36	0.13	43.71	0.00	0.00
160	0.70	23.31	-0.04	0.00	0.32	311.48	0.14	47.20	0.00	0.00
180	0.79	26.52	-0.06	0.00	0.41	363.64	0.16	52.45	0.00	0.00
200	0.89	29.43	-0.08	0.00	0.51	412.88	0.18	58.57	0.00	0.00
220	1.00	32.63	-0.10	0.00	0.62	455.71	0.21	64.98	0.00	0.00



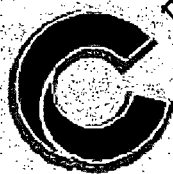
Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC - NM	Sample #:	33368
Area:	Shelf - New	Analysis ID #:	31765
Lease:	Burch-Keely Unit	BOPD:	5
Location:	724	BWPD:	5
Sample Point:	Wellhead		

Sampling date:	2/2/2016	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis date:	2/25/2016	Chloride:	112081.1	3150.69	Sodium:	50480.0	2588.36
Analysis:	Catalyst	Bicarbonate:	288.4	4.40	Magnesium:	1525.0	125.45
TDS (mg/l or g/m3):	184908	Carbonate:		0.00	Calcium:	9072.0	452.69
Density (g/cm3):	1.127	Sulfate:	1200.0	24.96	Potassium:	832.2	23.54
Hydrogen Sulfide:	0	Borate:	181.3	1.02	Strontium:	207.8	4.74
Carbon Dioxide:	330	Phosphorus:		0.00	Barium:	0.0	0.00
Comments:					Iron:	0.0	0.00
		pH at time of sampling:		5.91	Manganese:	0.0	0.00
		pH at time of analysis:					
		pH used in Calculation:		5.91	Conductivity (micro-ohms/cm):		202000
		Temperature @ lab conditions (F):		75	Resistivity (ohm meter):		0.0478

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.01	0.29	-0.06	0.00	-0.04	0.00	-0.02	0.00	0.00	0.00
100	0.08	4.93	-0.13	0.00	-0.04	0.00	-0.04	0.00	0.00	0.00
120	0.18	9.67	-0.19	0.00	-0.02	0.00	-0.06	0.00	0.00	0.00
140	0.28	14.65	-0.23	0.00	0.02	26.03	-0.06	0.00	0.00	0.00
160	0.38	19.63	-0.27	0.00	0.09	92.59	-0.05	0.00	0.00	0.00
180	0.49	24.61	-0.30	0.00	0.17	163.79	-0.04	0.00	0.00	0.00
200	0.60	29.59	-0.33	0.00	0.26	232.64	-0.02	0.00	0.00	0.00
220	0.72	34.28	-0.35	0.00	0.36	294.46	0.00	0.00	0.00	0.00



CATALYST

Oilfield Services

Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC - NM	Sample #:	30594
Area:	Shelf - New	Analysis ID #:	29037
Lease:	Burch-Keely Unit	BOPD:	4
Location:	392	BWPD:	2
Sample Point:	Wellhead		

Sampling date:	01/18/2015	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis date:	02/24/2015	Chloride:	120241.4	3320.81	Sodium:	71890.0	3127.04
Analysis:	Catalyst	Bicarbonate:	378.2	6.20	Magnesium:	725.6	59.69
TDS (mg/l or g/m3):	199827	Carbonate:		0.00	Calcium:	4242.0	211.68
Density (g/cm3):	1.138	Sulfate:	1200.0	24.06	Potassium:	928.4	23.69
Hydrogen Sulfide:	34	Borate:	117.1	0.74	Strontium:	108.4	2.43
Carbon Dioxide:	325	Phosphorus:		0.00	Barium:	0.0	0.00
Comments:		pH at time of sampling:		7.13	Iron:	0.0	0.00
		pH at time of analysis:			Manganese:	0.0	0.00
		pH used in Calculation:		7.13	Conductivity (micro-ohms/cm):		212000
		Temperature @ lab conditions (F):		75	Resistivity (ohm-meter):		0.0457

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	1.12	35.24	-0.34	0.00	-0.31	0.00	-0.29	0.00	0.00	0.00	
100	1.11	33.71	-0.42	0.00	-0.33	0.00	-0.32	0.00	0.00	0.00	
120	1.11	42.17	-0.49	0.00	-0.32	0.00	-0.34	0.00	0.00	0.00	
140	1.10	45.93	-0.55	0.00	-0.28	0.00	-0.35	0.00	0.00	0.00	
160	1.11	49.69	-0.60	0.00	-0.23	0.00	-0.35	0.00	0.00	0.00	
180	1.12	54.02	-0.65	0.00	-0.17	0.00	-0.35	0.00	0.00	0.00	
200	1.14	58.06	-0.69	0.00	-0.09	0.00	-0.34	0.00	0.00	0.00	
220	1.17	62.39	-0.72	0.00	0.00	4.33	-0.33	0.00	0.00	0.00	

Exhibit VIII
Geological Review
Ground Water Sources
Empire and Empire East
Eddy County, New Mexico

The interval under consideration for disposal operations includes the Cisco and Canyon. The Cisco interval is part of the Virgil Series of the Upper Pennsylvanian Age and the Canyon interval is part of the Missourian Series, located on the Northwest Shelf of the Delaware Basin in the western part of the Permian Basin.

The injection interval is the following:

Ronco Federal SWD #1 (SWD; Cisco/Canyon)

- Cisco/Canyon: 8,630.0' - 9,650.0' MD (8,630.0' - 9,650.0' TVD)

The Ronco Federal SWD #1 will be a vertical well that will be drilled to a true vertical depth (TVD) of 9,650.0' and casing will be set at approximately 8,630.0' at the top portion of the Cisco Reef to allow for an open hole completion into the Cisco/Canyon formations.

Produced water from Lower Permian Age and Upper Pennsylvanian Age rocks are too mineralized to be potable or useable for live stock.

Ground water in Eddy County is obtained from porous and permeable aquifers in consolidated rocks of the Upper Permian and Triassic age and in relatively unconsolidated sediments of Tertiary and Quaternary age.

The area east of the Pecos River is a large area and includes half of Eddy County, generally from T-16S R-27E to T-26S R-31E, extending from the Chaves County line south to the Texas State line and east to the Lea County line.

The Triassic System overlies the Rustler formation in Eddy County and is composed of red beds and sandstones of the Dockum group. The lower part of these beds is considered Permian and correlated with Dewey Lake red beds by some geologists. The total thickness of the Dockum group east of Artesia is about 1,000'. Formations of the Dockum group exposed in Eddy County are the Pierce Canyon red beds, the Santa Rosa sandstone and red beds possibly from the Chinle formation.

In the Empire, Empire East, Loco Hills, and Fren Fields, the sandstone beds in the Triassic Dockum group and possibly in the Dewey Lake red beds are the chief sources of ground water. The depth to water in this area is generally less than 300'. Most of the wells in the outcrop area of the Dockum group yield water of better quality than the wells to the west that produce from the Rustler formation. Analyses were made of 21 samples of water from wells probably taking all or part of their water from the Triassic red beds. The hardness of calcium carbonate in the 21 samples ranged from 201 to 3,590 ppm and was more than 1,000 ppm in 14 of the 21 samples. The chloride content ranged from 17 to 785 ppm and was more than 200 ppm in 10 of the samples. Probably about half the wells in the Triassic red beds produce water that is considered usable for domestic purposes. None of the wells in the Triassic red beds produce water too highly mineralized for stock.

A review of all geologic map data and well as visual searches by field personnel did not indicate the presence of any windmills in the areas of review for the proposed conversions.

In summary, ground water in the Empire, Empire East, Loco Hills, and Fren areas for stock and domestic use can be obtained from wells in the Triassic red beds at depths up to 300'. Water is generally of fair quality but locally impotable. The injection intervals for the proposed conversions are in the Yeso group in the lower Permian age rocks at about 8,350' TVD to 9,450' TVD. No contamination of the known shallow potable ground waters is expected from the proposed deeper secondary operations due to over 8,000' of vertical separation between them. There was no indication of any use of ground water aquifers in the areas of reviews for the proposed conversions.

From Geology and Ground-Water Resources of Eddy County, New Mexico by G. E. Hendrickson and R. S. Jones. Ground-Water Report 3, New Mexico Bureau of Mines and Mineral Resources, 1952

IX.

COG Operating, LLC
Ronco Federal SWD #1
Lease # New Drill
API# New Drill
Sec 19, T17S, R30E, Unit C
600' FNL & 1,650' FWL
Eddy County, NM

IX. Stimulation program: Large conventional acid job.

X.

COG Operating, LLC
Ronco Federal SWD #1
Lease # New Drill
API# New Drill
Sec 19, T17S, R30E, Unit C
600' FNL & 1,650' FWL
Eddy County, NM

X. Logging and test data: New Drill; no test or log data.

XI.

COG Operating, LLC
Ronco Federal SWD #1
Lease # New Drill
API# New Drill
Sec 19, T17S, R30E, Unit C
600' FNL & 1,650' FWL
Eddy County, NM

XI. Chemical Analysis from two or more Fresh Water Wells within One Mile of Injection:

There are no Fresh Water Wells within a One Mile Radius.



New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW# in the POD suffix indicates the POD has been replaced & no longer serves a water right)

(R-POD has been replaced, Overplanned, or the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

GREATER THAN 2 MILE

POD Number	Code	Subbasin	County	Source	418 4	See	Tws	Mag	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
RA 11511 POD1			ED	Shallow	2 4 2	20	175	30E	594801	3632002	2567	03/19/2013	03/19/2013	04/09/2013	85		BO JOHN NORRIS	1662
RA 11517 POD1			ED	Shallow	1 2 3	22	175	35E	587360	3631535	4968	11/23/2012	11/26/2012	03/26/2013	131		% TAYLOR, CLINTON E.	1348

Record Count: 2

Basin/County Search:

County: Eddy

UTM/NAD83 Radius Search (in meters):

Easting (X): 592262.85

Northing (Y): 3632387.31

Radius: 8050

GREATER THAN 2 MILE

2 MILE = 1609 METERS

The data is furnished by the NMUSE/ISC and is accepted by the recipient with the expressed understanding that the USE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

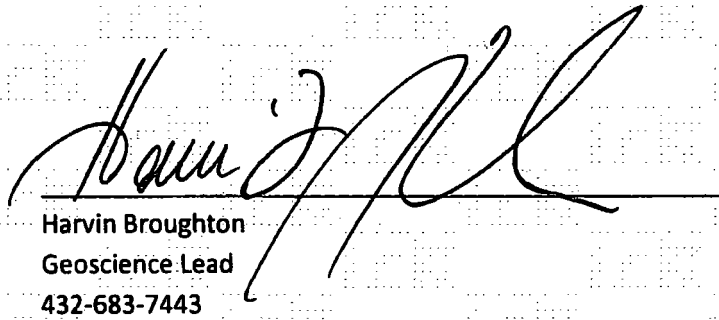
11/5/15 12:22 PM

WELLS WITH WELL LOG INFORMATION

FOR: RONCO FED SWD 1

Exhibit XII
Geological Statement

Concho Resources has examined available geological, seismic, and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.



Harvin Broughton
Geoscience Lead
432-683-7443

XIII. Proof of Notice

4/19/2017	KF	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to EOG Resources, Inc. 1111 Bagby, Lobby 2 Houston, TX 77002 GC #: 91-7199-9991-7036-0763-5841
4/19/2017	KF	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to Davoil Oil & Gas, Inc. 6300 Ridglea Place, Suite 1208 Fort Worth, TX 76116 GC #: 91-7199-9991-7036-0763-5872
4/19/2017	KF	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to Great Western Drilling 700 W. Louisiana Ave Midland, TX 79701 GC #: 91-7199-9991-7036-0763-5858
4/19/2017	KF	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to ConocoPhillips Co 600 N. Dairy Ashford Houston, TX 77079-1175 GC #: 91-7199-9991-7036-0763-5834
4/19/2017	KF	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to Magnum Hunter Production, Inc. 600 N. Marienfeld, Suite 600 Midland, TX 79701 GC #: 91-7199-9991-7036-0763-5827
5/11/2017	DK	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220-6292 GC #: 91-7199-9991-7033-2435-9525

XIII. Proof of Notice

Name

Magnum Hunter Production, Inc.
Conoco Phillips Company
EOG Resources, Inc.
Great Western Drilling Ltd.
Davoil Oil & Gas, Inc.
Bureau of Land Management

Address

600 N. Marienfeld, Suite 600
600 North Dairy Ashford
1111 Bagby, Sky Lobby 2
700 W. Louisiana Ave.
6300 Ridglea Place, Suite 1208
620 E. Greene Street

City/State/Zip

Midland, TX 79701
Houston, TX 77079-1175
Houston, TX 77002
Midland, TX 79701
Fort Worth, TX 76116
Carlsbad, NM 88220

Affidavit of Publication

No. 24276

State of New Mexico

County of Eddy

 Danny Scott *Danny Scott*

being duly sworn says that she is the Publisher
 of the Artesia Daily Press, a daily newspaper of General
 circulation, published in English at Artesia, said county
 and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said
 Artesia Daily Press, a daily newspaper duly qualified
 for that purpose within the meaning of Chapter 167 of
 the 1937 Session Laws of the state of New Mexico for
1 Consecutive weeks/day on the same

day as follows:

First Publication April 21, 2017

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

Sixth Publication _____

Subscribed and sworn before me this

24th day of April 2017


 OFFICIAL SEAL
 Latisha Romine
 NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2019

Copy of Publication:

Legal Notice

COG Operating LLC is applying for an SWD permit for the Ronco Federal SWD #1. The well is located at 600' FNL & 1,650' FWL, Sec. 19, T17S, R30E, Unit C, Eddy County, NM. The well will dispose of produced water from oil and gas wells into the Cisco Canyon zone at the depth 8,630' to 9,650' at a maximum daily rate of 20,000 barrels of water per day and at a maximum injection pressure of 1,726 psi. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Dana King, COG Operating LLC, One Concho Center, 600 W Illinois Ave, Midland, TX 79701; phone number is 432-818-2267.

Published in the Artesia Daily Press, Artesia, N.M., April 21, 2017 Legal No. 24276.

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico



A Division of MBF Inspection Services, Inc.
PO Box 2428
805 N. Richardson
Roswell, NM 88202
Telephone (575) 625-0599
Fax (575) 625-0687

OWNERSHIP REPORT

**PROSPECT: Loco Hills
TRACT:**

Township 17 South, Range 30 East, N.M.P.M.
Section 19: E/2 & NW/4
Containing: 474.86 Acres, more or less
Eddy County, New Mexico

**RECORD DATE: November 28, 2016
REPORT DATE: December 1, 2016**

LANDMAN: Matt Pizer

The conclusions reported herein are based upon the Landman's review of the instruments recorded in the county as indexed by the abstractor used.

SURFACE OWNERSHIP

NAME OF MINERAL OWNERS	INTEREST	NET ACRES	LEASEHOLD STATUS
United States Of America Bureau of Land Management 1474 Rodeo Rd. Santa Fe, NM 87505	100.000000%	474.860000	COVERED LANDS: <u>T17S-R30E:</u> Sec. 19: E/2, E/2NW/4, Lot 1 (NW/4NW/4 = 37.43 ac.) & Lot 2 (SW/4NW/4 = 37.43 ac.)

**TOTAL MINERAL
OWNERSHIP**

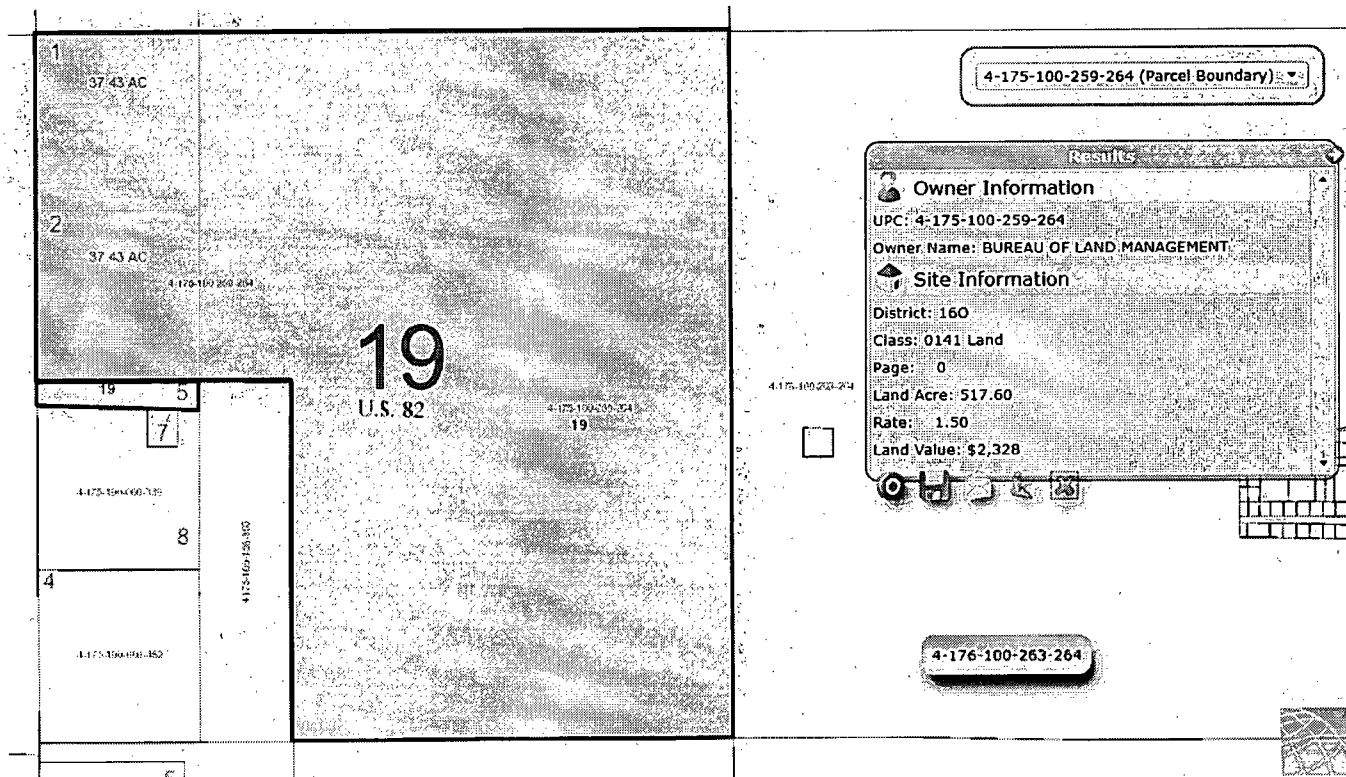
100.000000%

474.860000

TITLE NOTES

1. There appeared to be some fee/Non-Federal Land in the S/2SE/4NW/4 according to a GIS map from the BLM office in Carlsbad, NM. Upon further investigation, it appears that this is a mistake in the GIS map.

The Master Title Plat for T17-R30, Section 19 does not show that there is Fee Land in the NW/4. The Eddy County Tax Assessor's Office, and their website map, also does not show Fee Land in the NW/4. The Tax Assessor's Map is below.



2. According to the BLM Office in Carlsbad, there are two grazing leases on the property:

1.) #7075 - South Turkey Track: covering the N/2 Section 19. The permittee is:
Key Livestock, LLC
1012 E. 2nd St.
Rowell, NM 88201

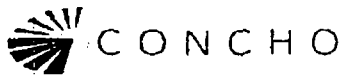
2.) #7007 - Sand Hill, covering the S/2 Section 19. The permittee is:
Steve Haines
11032 #2, Lovington Hwy.
Artesia, NM 88210

MISSING
 RETURN
 RECEIPT

XIII. Proof of Notice

4/19/2017	KF	SWD Application Notice	Ronco Federal #1 SWD	Sent Certified Mail to EOG Resources, Inc. 1111 Bagby, Lobby 2 Houston, TX 77002 GC #: 91-7199-9991-7036-0763-5841 ✓
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COPY



Dana King

April 19, 2017

EOG Resources, Inc.
1111 Bagby, Lobby 2
Houston, TX 77002

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600' FNL & 1,650' FWL
SWD; Cisco/Canyon (96186)
Eddy County, New Mexico

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be injecting, for the purpose of disposal, into the Cisco Canyon Formation. Injection interval will be 8,630' - 9,050'.

Should your company have any objection, it must be filed in writing within fifteen (15) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3440.

Sincerely,

Dana King

Dana King
COG Operating LLC
Permitting Tech

COPY

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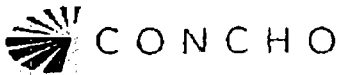
F

SENDER: COMPLETE THIS SECTION ■ Complete Items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. EOG Resources, Inc 1111 Bagby Lobby 2 Houston TX 77002 Re Ronco Fed SWD #1 9590 9402 2244 6193 1701 04 2. Article Number (Transfer from service label) 11 7199 9991 7036 0763 5841	ADDRESSEE: COMPLETE THIS SECTION OF DELIVERY A. Signature ☐ Agent ☐ Addressee X B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from Item 1? ☐ Yes ☐ No If YES, enter delivery address below: 3. Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☒ Adult Signature ☐ Return Receipt for Merchandise ☐ Adult Signature Restricted Delivery ☐ Signature Confirmation™ ☐ Certified Mail® ☐ Signature Confirmation Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail and Mail Restricted Delivery w/ \$500
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ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TX 79701

SENDER: COMPLETE THIS SECTION ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. EOG Resources, Inc. 1111 Bagby, Lobby 2 Houston, TX 77002 Re: Ronco Fed SWD #1 9590 9402 2244 6193 1701 04 2. Article Number (Transfer from service label) 1 7199 9991 7036 0763 5841	COMPLETE THE SECTION ON DELIVERY A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery [] Agent [] Addressee D. Is delivery address different from item 1? [] Yes [] No If "Yes," enter delivery address below: RECEIVED PR 27 2017 TX 77002 USPS 3. Service Type <table style="width: 100%;"> <tr> <td style="vertical-align: top;"> ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery </td> <td style="vertical-align: top;"> ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery </td> </tr> </table>	☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery		

EOG Resources, Inc
1111 Bagby, Lobby 2
Houston, TX 77002



Dana King

April 19, 2017

Davoll Oil & Gas, Inc.
6300 Ridglea Place, Suite 1208
Fort Worth, TX 76116

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600' FNL & 1,650' FWL
SWD: Cisco/Canyon (96186)
Eddy County, New Mexico

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be injecting, for the purpose of disposal, into the Cisco Canyon Formation. Injection interval will be 8,630' – 9,650'.

Should your company have any objection, it must be filed in writing within fifteen (15) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3440.

Sincerely,

Dana King

Dana King
COG Operating LLC
Permitting Tech

COPY

P

F



CONCHO

ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TX 79701

91 7199 9991 7036 0763 5872

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Davol Oil & Gas, Inc.
6300 Ridglea Place Suite 1208
Fort Worth TX 76116
Re Ronco Fed #1 SWD

9590 9402 2244 6193 1701 11

9 Article Number (Transfer from service label)

91 7199 9991 7036 0763 5872

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION OF DELIVERY

A. Signature

X

- ☐ Agent
- ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail®
- ☐ Insured Mail Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
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Davol Oil & Gas, Inc.
6300 Ridglea Place Suite 1208
Fort Worth TX 76116
Re Ronco Fed #1 SWD

9590 9402 2244 6193 1701 11

9 Article Number (Transfer from service label)

91 7199 9991 7036 0763 5872

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION OF DELIVERY

A. Signature

X *TRICIA SMOTHERS*

- ☐ Agent
- ☐ Addressee

B. Received by (Printed Name)

TRICIA SMOTHERS

4/24/17

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

3. Service Type

- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
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- ☐ Insured Mail Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Davol Oil & Gas, Inc.
6300 Ridglea Place, Suite 1208
Fort Worth, TX 76116

COPY

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☐ Agent ☐ Addressee X	
1. A. Great Western Drilling Ltd 700 W. Louisiana Ave Midland, TX 79701 Re Ronco Fed #1 SWD		B. Received by (Printed Name) C. Date of Delivery	
9590 9402 2244 6193 1701 28		D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below:	
Article Number (Transfer from service label) 91 7199 9991 7036 0763 5858		3. Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	



CONCHO

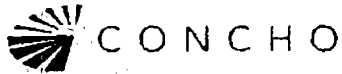
ONE CONCHO CENTER
 600 W ILLINOIS AVENUE
 MIDLAND, TX 79701

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☐ Agent ☐ Addressee X <i>Helen L. Lard</i>	
1. A. Great Western Drilling Ltd 700 W. Louisiana Ave Midland, TX 79701 Re Ronco Fed #1 SWD		B. Received by (Printed Name) C. Date of Delivery H. Lard 4/20/17	
9590 9402 2244 6193 1701 28		D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below:	
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PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

91 7199 9991 7036 0763 5858

Great Western Drilling Ltd
 700 W Louisiana Ave
 Midland, TX 79701

COPY



Dana King

April 19, 2017

ConocoPhillips Company
600 N. Dairy Ashford
Houston, TX 77079-1175

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600' FNL & 1,650' FWL
SWD: Cisco/Canyon (96186)
Eddy County, New Mexico

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be injecting, for the purpose of disposal, into the Cisco Canyon Formation. Injection interval will be 8,630' – 9,650'.

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Sincerely,

Dana King

Dana King
COG Operating LLC
Permitting Tech

COPY

P

F

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

ConocoPhillips Company
600 N. Dairy Ashford
Houston, TX 77079
Re Ronco Fed #1 SWD

9590 9402 2244 6193 1701 35

Article Number (Transfer from service label)

91 7199 9991 7036 0763 5834

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
- | | |
|--|---|
| ☒ Adult Signature | ☐ Priority Mail Express® |
| ☐ Adult Signature Restricted Delivery | ☐ Registered Mail™ |
| ☐ Certified Mail® | ☐ Registered Mail Restricted Delivery |
| ☐ Certified Mail Restricted Delivery | ☒ Return Receipt for Merchandise |
| ☐ Collect on Delivery | ☐ Signature Confirmation™ |
| ☐ Collect on Delivery Restricted Delivery | ☐ Signature Confirmation Restricted Delivery |
| ☐ Restricted Delivery | |

Domestic Return Receipt



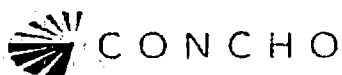
CONCHO

ONE CONCHO CENTER
600 W ILLINOIS AVENUE
MIDLAND, TX 79701

91 7199 9991 7036 0763 5834

ConocoPhillips Company
600 N Dairy Ashford
Houston, TX 77079

COPY



Dana King

April 19, 2017

Magnum Hunter Production, Inc.
600 N. Marienfeld, Suite 600
Midland, TX 79701

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600' FNL & 1,650' FWL
SWD: Cisco/Canyon (96186)
Eddy County, New Mexico

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Sincerely,

Dana King

Dana King
COG Operating LLC
Permitting Tech

COPY

P

F

USPS Tracking® Results

[FAQs > \(http://faq.usps.com/?articleId=220900\)](http://faq.usps.com/?articleId=220900)[Track Another Package +](#)[Remove X](#)**Tracking Number:** 9171999991703607635834
In Transit, Delayed

Product & Tracking Information

[See Available Actions](#)**Postal Product:**
First-Class Mail®**Features:**
Certified Mail™

DATE & TIME

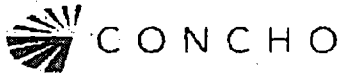
STATUS OF ITEM

LOCATION

April 23, 2017, 9:26 am**In Transit to Destination**


The package is delayed and will not be delivered by the expected delivery date. An updated delivery date will be provided when available. The item is currently in transit to the destination as of April 23, 2017 at 9:26 am.

April 22, 2017, 2:26 am**Departed USPS Destination
Facility****NORTH
HOUSTON, TX 77315****April 21, 2017, 6:25 pm****In Transit to Destination**



Dana King

Permitting Tech

800-220-0111 • FAX
505-726-0911 • 505

April 19, 2017

Great Western Drilling Ltd.
700 W. Louisiana Ave.
Midland, TX 79701

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600' FNL & 1,650' FWL
SWD: Cisco/Canyon (96186)
Eddy County, New Mexico

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Sincerely,

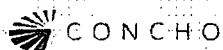
Dana King

Dana King
COG Operating LLC
Permitting Tech

COPY

P

F



May 23, 2017

ConocoPhillips Company
600 North Dairy Ashford
Houston, TX 77079-1175

Second (2nd) Attempt

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600 ENL & 1,650 FWL
SWD: Cisco-Cisco Canyon (96186)
Eddy County, New Mexico

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Sincerely,

Dana King
COG Operating LLC
Permitting Technician

Encl (Copy of First Notice Letter/4/19/2017)

One Concho Center | 800 West Illinois Avenue | Midland, Texas 79701 | P 432.683.7443 | F 432.683.7441

Track your package or shipment with FedEx Tracking

Page 1 of 1

FedEx Shipping Tracking Manage Learn FedEx Office® Login

FedEx® Tracking

779211823938

Ship date
Tue 5/23/2017

MIDLAND TX US

Delivered

Shipped by: 1 TRS500

Actual delivery
Wed 5/24/2017 8:47 am

HOUSTON TX US

Travel History

Date/Time	Activity	Location
5/24/2017 - Wednesday		
9:47 am	Delivered	HOUSTON, TX
9:55 am	On FedEx vehicle for delivery	HOUSTON, TX
7:15 am	At local FedEx facility	HOUSTON, TX
6:00 am	At destination sort facility	HOUSTON, TX
4:00 am	Overnight FedEx location	HOUSTON, TX
5/23/2017 - Tuesday		
10:53 am	Arrived at FedEx location	HOUSTON, TX
8:00 pm	Left FedEx origin facility	HOUSTON, TX
4:44 pm	Picked up	HOUSTON, TX
3:57 pm	Shipment cancelled by sender	HOUSTON, TX

Shipment Facts

Tracking number	779211823938	Service	FedEx Priority Overnight
Weight	0.5 lbs / 0.23 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	0.5 lbs / 0.23 kgs
Terms	Shipper	Packaging	FedEx Envelope
Special handling section	Deliver Weekday	Standard transit	Scheduled by 10:30 am

FedEx

Search or tracking number

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Small Business Center
Service Query
Customer Support
Company Information
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<https://www.fedex.com/apps/fedextrack/?tracknumbers=779211823938>

5/26/2017



CONCHO

ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TX 79701

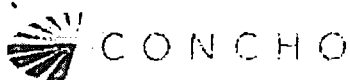
91 7199 9991 7036 0763 5827

COPY

SENDER COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY														
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Magnum Hunter Production, Inc 600 N. Maranfield Suite 600 Midland, TX 79701 Re Ronco Fed SWD #1 9590 9402 2244 6193 1701 42	3. Service Type <table border="0"><tr><td>☒ Adult Signature</td><td>☐ Priority Mail Express®</td></tr><tr><td>☐ Adult Signature Restricted Delivery</td><td>☐ Registered Mail™</td></tr><tr><td>☐ Certified Mail®</td><td>☐ Registered Mail Restricted Delivery</td></tr><tr><td>☐ Certified Mail Restricted Delivery</td><td>☒ Return Receipt for Merchandise</td></tr><tr><td>☐ Collect on Delivery</td><td>☐ Signature Confirmation™</td></tr><tr><td>☐ Collect on Delivery Restricted Delivery</td><td>☐ Signature Confirmation Restricted Delivery</td></tr><tr><td>☐ Mail Restricted Delivery</td><td></td></tr></table>	☒ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☐ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☒ Return Receipt for Merchandise	☐ Collect on Delivery	☐ Signature Confirmation™	☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery	☐ Mail Restricted Delivery	
☒ Adult Signature	☐ Priority Mail Express®														
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☐ Certified Mail®	☐ Registered Mail Restricted Delivery														
☐ Certified Mail Restricted Delivery	☒ Return Receipt for Merchandise														
☐ Collect on Delivery	☐ Signature Confirmation™														
☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery														
☐ Mail Restricted Delivery															
2. Article Number (Transfer from service label) 91 7199 9991 7036 0763 5827															
PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt															

SENDER COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY														
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt															

Magnum Hunter Production, Inc
600 N. Maranfield, Suite 600
Midland, TX 79701



Dana King

May 10, 2017

Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220-6292

Certified Mail Article Number: 91 7199 9991 7033 2435 9525

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600' FNL & 1,650' FWL
SWD: Cisco/Canyon (96186)
Eddy County, New Mexico

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Sincerely,

Dana King
COG Operating LLC
Permitting Tech

Enclosure (Completed OCD Application)

COPY



One Concho Center
600 West Illinois Avenue
Midland, Texas 79701

91 7199 9991 7033 2435 9525

BUREAU OF LAND MANAGEMENT
620 E. GREENE STREET
CARLSBAD, NM 88220-6292

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

BUREAU OF LAND MANAGEMENT
620 E. GREENE STREET
CARLSBAD, NM 88220-6292

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail® ☐ Priority Mail Express™

☐ Registered ☒ Return Receipt for Merchandise

☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number
(Transfer from service label)

91 7199 9991 7033 2435 9525

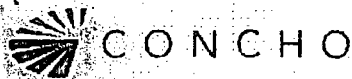
USPS Tracking® Results

[FAQs > \(http://faq.usps.com/?articleId=220900\)](http://faq.usps.com/?articleId=220900)[Track Another Package +](#)[Remove X](#)**Tracking Number:** 9171999991703324359525**Delivered****On Time****Updated Delivery Day:** Wednesday, May 17, 2017 ⓘ

Product & Tracking Information

[See Available Actions](#)**Postal Product:**
Priority Mail™**Features:**
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
May 17, 2017, 11:53 am	Delivered, Front Desk/Reception 	CARLSBAD, NM 88220
Your item was delivered to the front desk or reception area at 11:53 am on May 17, 2017 in CARLSBAD, NM 88220.		
May 17, 2017, 6:59 am	Out for Delivery	CARLSBAD, NM 88220
May 17, 2017, 6:49 am	Sorting Complete	CARLSBAD, NM 88220



Dana King
Permitting Tech

May 10, 2017

Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220-6292

Certified Mail Article Number: 91 7199 9991 7033 2435 9525

Re: SWD Application

Ronco Federal SWD #1
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COG Operating LLC
Permitting Tech

Enclosure (Completed OCD Application)

COPY



One Concho Center
600 West Illinois Avenue
Midland, Texas 79701

91 7199 9991 7033 2435 9525

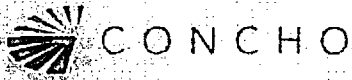
SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
☒ Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X <i>[Signature]</i> ☐ Agent ☒ Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>5/17/17</i> D. Is delivery address different from Item 1? ☐ Yes ☒ No If YES, enter delivery address below:	
1. Article Addressed to: BUREAU OF LAND MANAGEMENT 620 E. GREENE STREET CARLSBAD, NM 88220-6292		3. Service Type ☒ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☒ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
2. Article Number (Transfer from service label) 91 7199 9991 7033 2435 9525		4. Restricted Delivery? (Extra Fee) ☐ Yes	

PS Form 3811, July 2013 Domestic Return Receipt

BUREAU OF LAND MANAGEMENT
620 E. GREENE STREET
CARLSBAD, NM 88220-6292

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
☒ Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X ☐ Agent ☒ Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from Item 1? ☐ Yes ☒ No If YES, enter delivery address below:	
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PS Form 3811, July 2013 Domestic Return Receipt



May 23, 2017

ConocoPhillips Company
600 North Dairy Ashford
Houston, TX 77079-1175

Second (2nd) Attempt

Re: SWD Application

Ronco Federal SWD #1
API# Pending
C-19-17S-30E
600 FNL & 1,650 FWL
SWD: Cisco-Cisco Canyon (96186)
Eddy County, New Mexico

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Sincerely,

Dana King
COG Operating LLC
Permitting Technician

Encl (Copy of First Notice Letter/4/19/2017)

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FedEx® Tracking

779211823936

Ship date

Tue 5/23/2017

MIDLAND TX US

Actual delivery

Wed 5/24/2017 9:47 am

HOUSTON TX US

Delivered

Signed for by: T. TREVINO

Travel History

Date/Time	Activity	Location
- 5/24/2017 - Wednesday		
9:47 am	Delivered	HOUSTON TX
8:05 am	On FedEx® vehicle for delivery	HOUSTON TX
7:15 am	At local FedEx® facility	HOUSTON TX
5:00 am	At destination sort facility	HOUSTON TX
4:00 am	Departed FedEx location	HOUSTON TX
- 5/23/2017 - Tuesday		
10:53 am	Arrived at FedEx location	FOST VORTH TX
8:02 pm	Left FedEx origin facility	MAKALD TX
4:44 pm	Picked up	MAKALD TX
3:57 pm	Shipment cancelled by sender	

Shipment Facts

Tracking number	779211823936	Service	FedEx® Priority Overnight
Weight	0.5 lbs / 0.23 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	0.5 lbs / 0.23 kgs
Terms	Shipper	Packaging	FedEx Envelope
Special handling section	Deliver Weekday	Standard transit	5/24/2017 by 10:30 am

[Search or tracking number](#)[Subs](#)

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[Small Business Center](#)
[Service Guide](#)
[Customer Support](#)

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Ask FedEx

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number
RA 11914 POD1

Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
		ED	2	4	2	20	17S	30E	594801	3632002	85	80	5

Average Depth to Water: 80 feet

Minimum Depth: 80 feet

Maximum Depth: 80 feet

Record Count: 1

PLSS Search:

Section(s): 17-20

Township: 17S

Range: 30E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/31/17 8:58 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

McMillan, Michael, EMNRD

From: Dana King <DKing@concho.com>
Sent: Friday, June 2, 2017 9:54 AM
To: McMillan, Michael, EMNRD
Cc: Kanicia Castillo
Subject: RE: Ronco Federal SWD Well No. 1 Suspended application Eddy Co

Hello Michael,

As requested, please find the projected tops for the following:

San Andres	2,713'
Yeso (Paddock)	4,183'
Wolfcamp	7,463'
Cisco-Canyon	8,522'

Thank you,
Dana King
Permitting Technician
NM Shelf Team
COG Operating LLC
600 W. Illinois Ave
Midland, Tx 79701
(432) 818-2267



From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Wednesday, May 31, 2017 9:56 AM
To: Dana King
Subject: [External] RE: Ronco Federal SWD Well No. 1 Suspended application Eddy Co

Provide the projected tops for the San Andres, Yeso, Wolfcamp, and Cisco-Canyon
Mike

From: McMillan, Michael, EMNRD
Sent: Wednesday, May 31, 2017 8:54 AM
To: 'Dana King' <DKing@concho.com>
Subject: RE: Ronco Federal SWD Well No. 1 Suspended application Eddy Co

I need a water sample of the Cisco-Canyon.
Mike

From: McMillan, Michael, EMNRD
Sent: Wednesday, May 31, 2017 8:44 AM
To: 'Dana King' <DKing@concho.com>
Subject: RE: Ronco Federal SWD Well No. 1 Suspended application Eddy Co

Start 15-day clock
5-24-2017



C-108 Review Checklist:

Received 5/14/2017

Add. Request:

Reply Date:

Suspended:

[Ver 15]

ORDER TYPE: WFX / PMX / SWD Number:

Order Date:

Legacy Permits/Orders:

Well No. 1 Well Name(s): RONCO FEDERAL SWD

API: 30-0 15-Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 660 FEET 1650 FEET Lot or Unit C Sec 9 Tsp 17S Rge 30E County Eddy

General Location: 13 miles SW of Malyan Pool: Pool No.:

BLM 100K Map: Antesia Operator: COG operating, LLC OGRID: 229137 Contact: Denning Permitting technicians

COMPLIANCE RULE 5.9: Total Wells: 3948 Inactive: 4 Fincl Assur: OK Compl. Order? MA IS 5.9 OK? Date: 6/2/2017

WELL FILE REVIEWED Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging:

Planned Rehab Work to Well:

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and Determination Method
		Borehole / Pipe	Depths (ft)	St or Cf	
Planned or Existing Surface	17 1/2 / 13 3/8	300'	Stage Tool	40"	Surfaced / 1544
Planned or Existing Interm/Prod	12 1/4 / 9 9/8	1100		450	Surfaced / 1544
Planned or Existing Interm/Prod	8 3/4 / 7	863 0	640"	1300 / 1200	Surfaced / 1544
Planned or Existing Prod/Liner					
Planned or Existing Liner					
Planned or Existing OH/PERF	8630 / 4550		Inj Length	1250'	
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.			ESCN	8022	Drilled TD PBSD
Confining Unit: Litho. Struc. Por.					NEW TD 9650 NEW PBSD
Proposed Inj Interval TOP:					NEW Open Hole or NEW Perfs
Proposed Inj Interval BOTTOM:					Tubing Size 3 1/2 in. Inter Coated? X
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth (100-ft limit)
					Proposed Max. Surface Press. 1726 psi
					Admin. Inj. Press. 1726 (0.2 psi per ft)
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: 90 B: 100 NW: Cliff House fm					
FRESH WATER: Aquifer Antesia Max Depth 80' HYDRO AFFIRM STATEMENT By Qualified Person					
NMOSE Basin: BLM well - Antesia CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? FW Analysis					
Disposal Fluid: Formation Source(s) yes Analysis? Y On Lease Operator Only or Commercial					
Disposal Int: Inject Rate (Avg/Max BWPD): 10K/15K Protectable Waters? Source: System Closed or Open					
HC Potential: Producing Interval? Formerly Producing? Method: Logs/DST/P&A/Other Regional 2-Mile Radius Pool Map					
AOR Wells: 1/2-M Radius Map? Y Well List? Total No. Wells Penetrating Interval: 3 Horizontals? 0					
Penetrating Wells: No. Active Wells 0 Num Repairs? on which well(s)? Diagrams?					
Penetrating Wells: No. P&A Wells 3 Num Repairs? on which well(s)? Diagrams? X					
NOTICE: Newspaper Date 4/11/2017 Mineral Owner BLM Surface Owner BLM N. Date 5-17-2017					
RULE 26.7(A): Identified Tracts? Affected Persons: EOG, DAVOIL, G.W.O., CONOCO N. Date 4-20-2017 5-24-2017					
Order Conditions: Issues: [Redacted]					