

ABOVE THIS LINE FOR DIVISION USE ONLY

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



EOG Resources
 Black Bear 30 State
 #5

RECEIVED OGD
 9/24/12

2012 AUG 10 P 12:41

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

30-025-40585

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

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

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

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

Stan Wagner		Regulatory Analyst	8/8/12
Print or Type Name	Signature	Title	Date
		stan_wagner@cogresources.com	
		e-mail Address	

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage
Application qualifies for administrative approval? Yes _____ No

II. OPERATOR: EOG Resources, Inc.

ADDRESS: P.O. Box 2267 Midland, TX 79702

CONTACT PARTY: Stan Wagner PHONE: 432-686-3689

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 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).

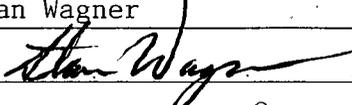
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: Stan Wagner TITLE: Regulatory Analyst

SIGNATURE:  DATE: 8/8/12

E-MAIL ADDRESS: stan_wagner@eogresources.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.

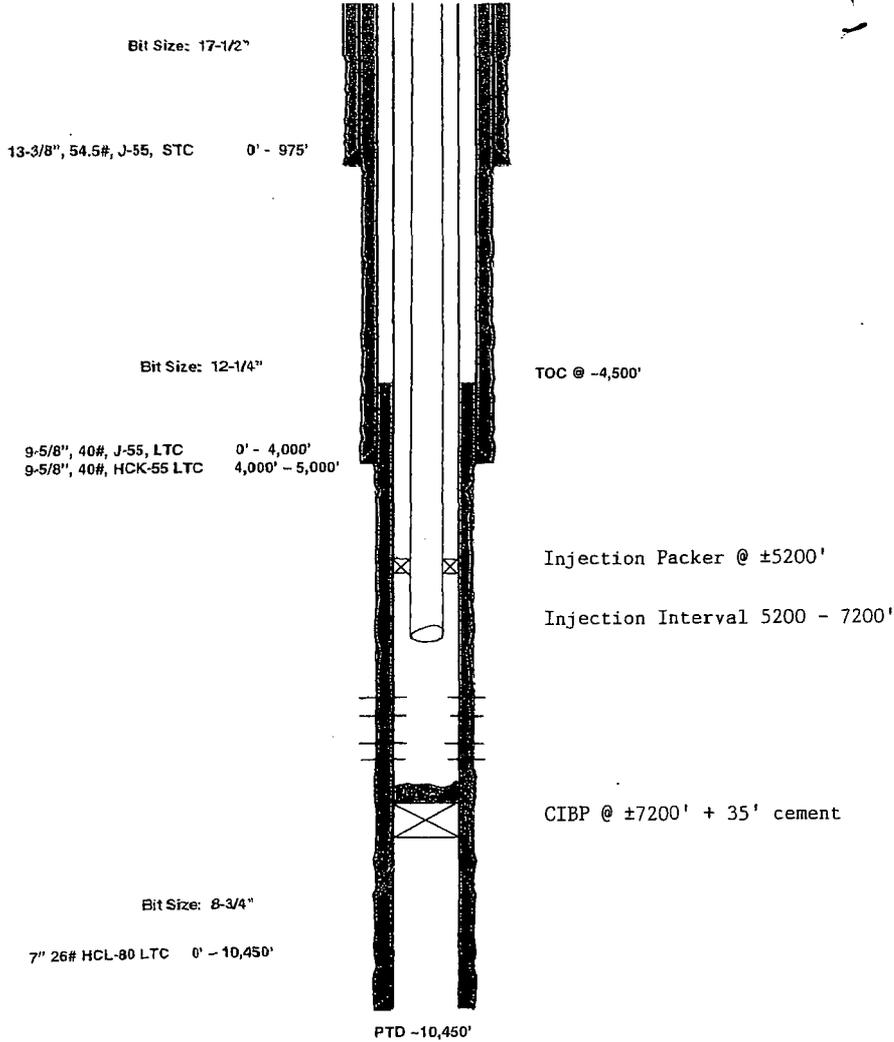
INJECTION WELL DATA SHEET

OPERATOR: EOG Resources, Inc.

WELL NAME & NUMBER: Black Bear 36 State 5

WELL LOCATION: 1420' FNL & 1320' FEL H 36-25S-33E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2 Casing Size: 13-3/8
 Cemented with: 575 sx. or _____ ft³
 Top of Cement: surface Method Determined: circulation

Intermediate Casing

Hole Size: 12-1/4 Casing Size: 9-5/8
 Cemented with: 975 sx. or _____ ft³
 Top of Cement: surface Method Determined: circulation

Production Casing

Hole Size: 8-3/4 Casing Size: 7
 Cemented with: 810 sx. or _____ ft³
 Top of Cement: ±4500' Method Determined: calculation
 Total Depth: 10450'

5300' Injection Interval 7070
~~5200'~~ feet to ~~7200'~~

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" Lining Material: Plastic Coated

Type of Packer: 7" Plastic Coated / Nickel Plated Injection Packer

Packer Setting Depth: ±5200'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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: Delaware

3. Name of Field or Pool (if applicable): SWD; Delaware

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. _____

None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Leonard A Shale 9330'

1st Bone Spring Sand 10290'

APPLICATION FOR AUTHORIZATION TO INJECT
BLACK BEAR 36 STATE No. 5

VII. PROPOSED OPERATION

- (1) Proposed Average Daily Rate and Volume: 500 BWIPD
Proposed Maximum Daily Rate and Volume: 10000 BWIPD
- (2) Open or Closed System: Closed
- (3) Proposed Average Injection Surface Pressure: 300 psi
Proposed Maximum Injection Surface Pressure: 2000 psi
Note: Original Delaware formation BHP 9500 psi.
- (4) Produced Bone Spring Formation Water (see attached analysis)
- (5) N/A

VIII. GEOLOGIC DATA ON INJECTION ZONE

Injection Zone: Delaware Sandstone Perfs 5200' – 7200'
Lithologic Detail: Fine grain sandstone.
Geological Name: Delaware Mountain Group (Guadalupian)
Thickness: Delaware – 3730'
Depth: Top of Delaware at 3200'
Underground Sources of Drinking Water:
Fresh water sources in the immediate area have been encountered in aquifers above 250'. These aquifers are found in the Pliocene age Ogallala and Pleistocene age alluvial sediments and consist for the most part of alternating calcareous silt, fine sand and clay. There are no other sources of fresh water underlying the injection interval.

IX. PROPOSED STIMULATION

None at this time

X. LOGGING AND TESTING DATA ON INJECTION WELL

Logs will be submitted upon completion of drilling operations.

XI. CHEMICAL ANALYSIS OF WATER FROM FRESH WATER WELLS
WITHIN ONE MILE OF THE INJECTION WELL

A review of the State Engineers records shows 1 fresh water well within one mile of the injection well.



XII. Available geologic and engineering data has been examined and no evidence has been found of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

XIII. See attached "Proof of Notice".

Surface Owner:

New Mexico State Land Office

P.O. Box 1148

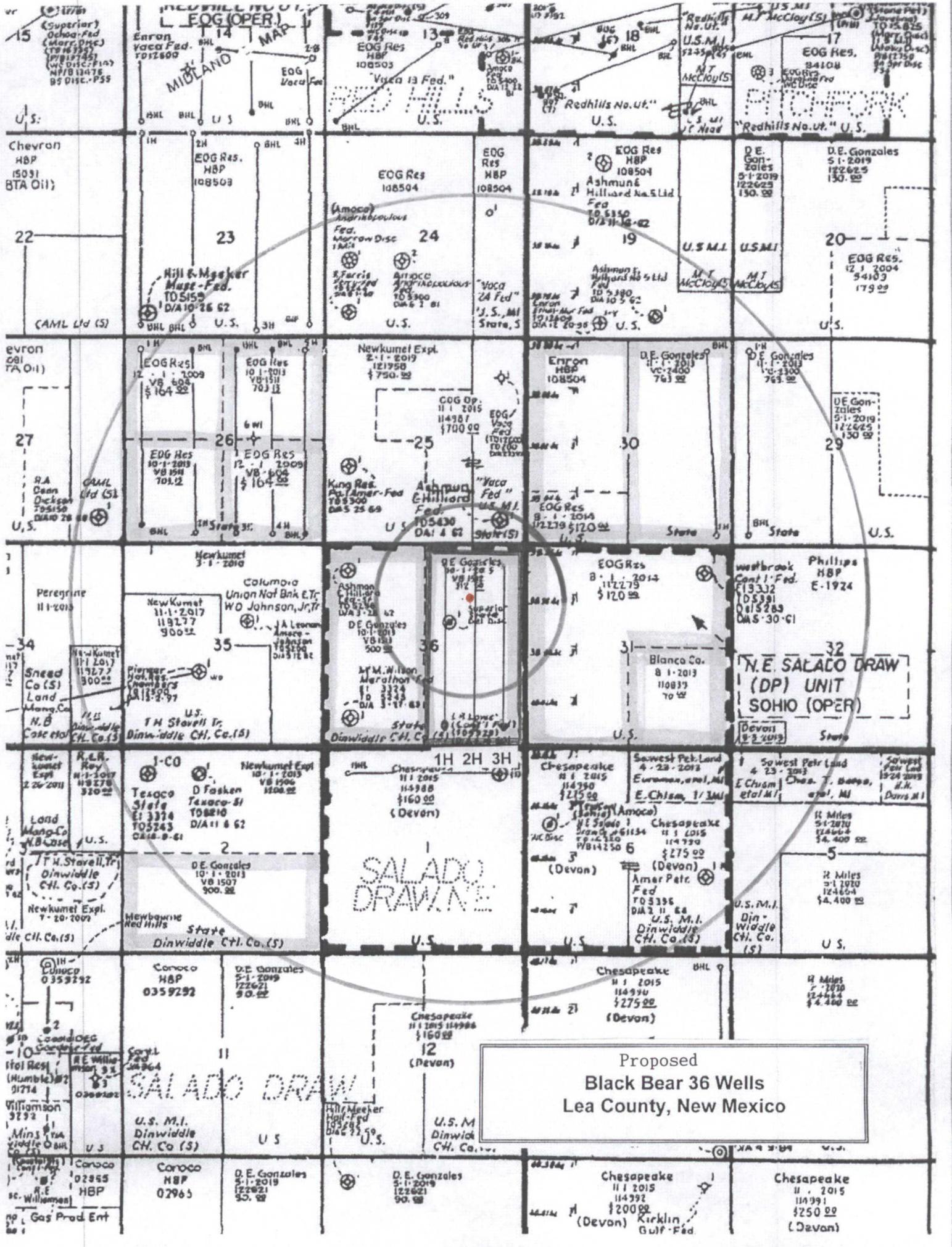
Santa Fe, NM 87504

Operators within a ½ mile radius of the proposed injector:

EOG Resources, Inc.

P.O. Box 2267

Midland, TX 79702



Proposed
Black Bear 36 Wells
 Lea County, New Mexico

SALADO DRAW

SALADO DRAW

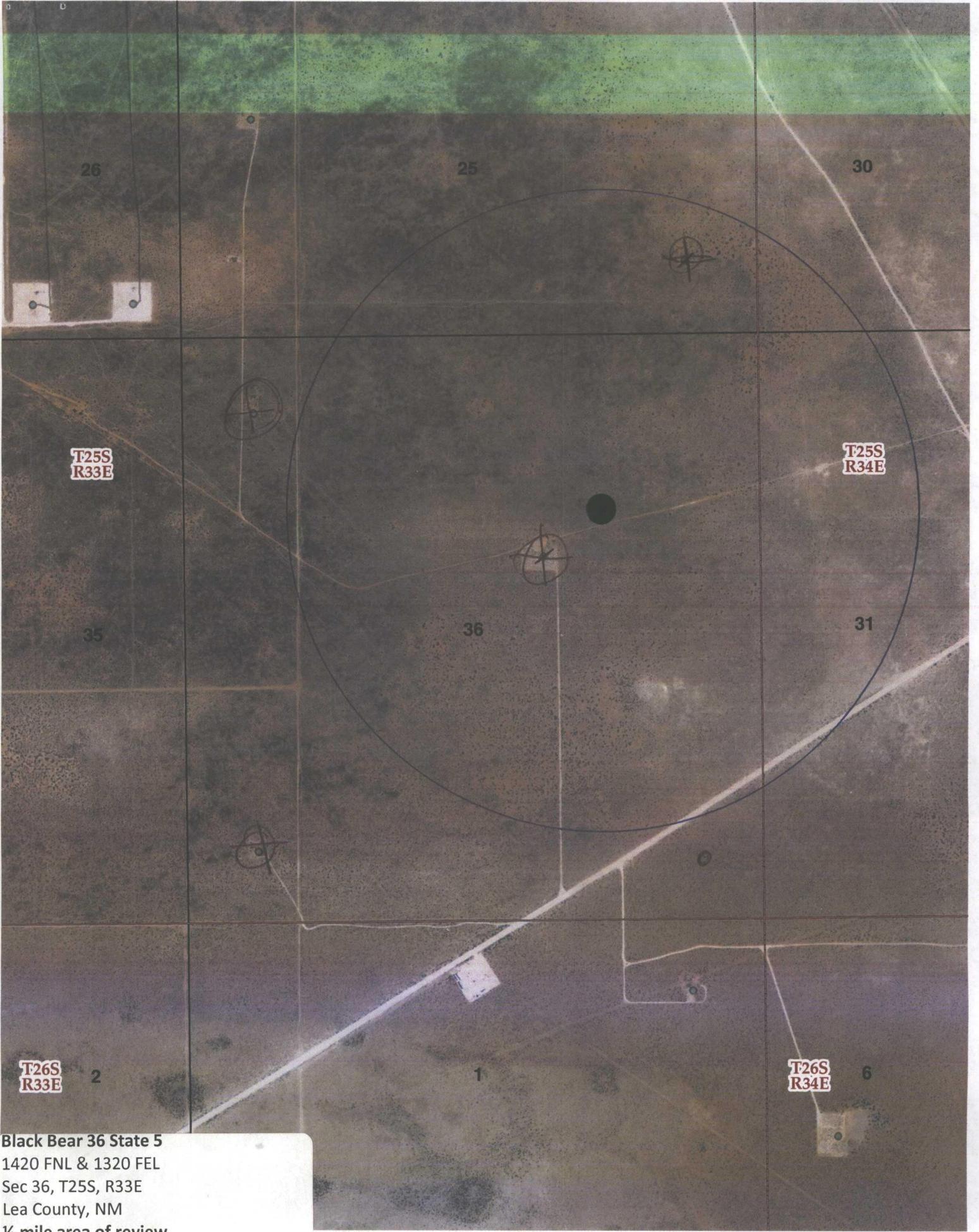
N.E. SALADO DRAW (DP) UNIT SOHIO (OPER)

EOG (OPER)

SALADO

SALADO

EOG RES



Black Bear 36 State 5
1420 FNL & 1320 FEL
Sec 36, T25S, R33E
Lea County, NM
½ mile area of review

Item 7

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	OGRID: API: 30-025-40585 AFE: 105223 SPUD: 6/26/12 @ 05:55 hrs FRR: 7/10/12 @ 12:00 hrs RIG: Cactus #123	Black Bear 36 State #5 Red Hills (Bone Spring) Field Lea County, New Mexico	SURF: 1420' FNL & 1320' FEL LOC: Sec. 36 SURVEY: T-25-S, R-33-E GL: 3318.7' KB: 3343.7' ZERO: 25.0' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (F)	LOT (ppg)	EVALUATION
1,000'	Rustler - 950'			20" Conductor @ 120'		17-1/2"	8.6	FW	86	N/A	
2,000'	T / Salado - 1300'	Salt		Surface Casing @ 1069' 13-3/8" 61# J-55 BTC Cement w/ 500 sx Class C + 4.0% Bentonite + 1.0% CaCl2 + 0.25 pps Celloflake (13.5 ppg, 1.734 yld), followed by 300 sx Class C + 1.0% CaCl2 (14.8 ppg, 1.335 yld). Bump plug w/ 936 psi and circ 182 sx to surface		12-1/4"	10.0	Brine			Mud Log
3,000'							10.2		105		
4,000'				TOC @ 4910' (CBL)			8.4			N/A	
5,000'	B / Salado - 4890'			Intermediate Casing @ 5,039' 9-5/8", 40#, J-55, LT&C (0' - 3,911') 9-5/8", 40#, HCK-55, LTC (3,911' - 5,039') Cement w/ 1125 sx Class C + 2.0% SMS + 10.0% Salt + 0.90% R-3 + 0.25 pps Celloflake (12.7 ppg, 2.217 yld), followed by 200 sx Class C + 0.60% FL-62 + 0.60% CD-32 + 0.40% SMS + 0.35% R-3 (14.8 ppg, 1.337 yld). Did not bump		8-3/4"		WBM			BHC Sonic / GR-HRLA-MSFL / HNGS-CNL-LDT w/ Pe Mud Log
6,000'	Lamar - 5120'										
7,000'	Bell Canyon - 5130'										
8,000'	Cherry Canyon - 6150'										
9,000'	Bone Spring Lime - 9300'										
10,000'	Top Leonard A - 9330'			Production Casing @ 10,465' 7" 26# HCL-80 LTC Cement w/ 250 sx 60:40:0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.25% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3.674 yld), followed by 200 sx 50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.50% SMS + 5.0% Salt + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.379 yld), followed by 225 sx 50:50:2 Class H + 0.65% FL-52 + 0.50% CD-32 + 0.35% SMS + 2.0% Salt + 0.005% GPS FP-6L (14.2 ppg, 1.28 yld). Bump plug w/ 2160 psi. Did							
	1st Bone Spring Sand - 10,290'			TD @ 10,465'							
	PTD - ~10,450'										

Drlg Eng:	S. Munsell
Date:	7/11/2012

PROPOSED WELL SKETCH

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	OGRID: API: 30-025-40585 AFE: 105223 SPUD: 6/26/12 @ 05:55 hrs FRR: 7/10/12 @ 12:00 hrs RIG: Cactus #123	Black Bear 36 State #5 SWD Red Hills (Bone Spring) Field Lea County, New Mexico	SURF: 1420' FNL & 1320' FEL LOC: Sec. 36 SURVEY: T-25-S, R-33-E GL: 3318.7' KB: 3343.7' ZERO: 25.0' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
1,000'	Rustler - 950'			20" Conductor @ 120' Surface Casing @ 1069' 13-3/8" 61# J-55 BTC Cement w/ 500 sx Class C + 4.0% Bentonite + 1.0% CaCl ₂ + 0.25 pps Celloflake (13.5 ppg, 1.734 yld), followed by 300 sx Class C + 1.0% CaCl ₂ (14.8 ppg, 1.335 yld). Bump plug w/ 936 psi and circ 182 sx to surface		17-1/2"	8.6	FW	86	N/A	
2,000'	T / Salado - 1300'	Salt		4-1/2" 11.6 ppf J55 EUE IPC tubing with 7" nickel plated injection packer set at +/- 5250'		12-1/4"	10.0	Brine			Mud Log
3,000'							10.2		105		
4,000'				TOC @ 4910' (CBL) Base of Salt = 4916' Intermediate Casing @ 5,039' 9-5/8", 40#, J-55, LT&C (0' - 3,911') 9-5/8", 40#, HCK-55, LTC (3,911' - 5,039') Cement w/ 1125 sx Class C + 2.0% SMS + 10.0% Salt + 0.90% R-3 + 0.25 pps Celloflake (12.7 ppg, 2.217 yld), followed by 200 sx Class C + 0.60% FL-62 + 0.60% CD-32 + 0.40% SMS + 0.35% R-3 (14.8 ppg, 1.337 yld). Did not bump		8.4			N/A		
5,000'	B / Salado - 4890'			Top of Delaware Lamar = 5164' Top of Bell Canyon = 5210' Top of Cherry Canyon = 6115' Top of Brushy Canyon = 7790' Proposed Injection Interval = 5300' - 7070'		8-3/4"		WBM			BHC Sonic / GR-HRLA-MSFL / HNGS-CNL-LDT w/ Pe Mud Log
6,000'	Lamar - 5120'										
7,000'	Bell Canyon - 5130'			7" CIBP at +/- 7300'. Dump bail 35' of cement to 7265'							
8,000'	Cherry Canyon - 6150'			7" CIBP at +/- 9200'. Dump bail 35' of cement to 9165'							
9,000'	Bone Spring Lime - 9300'										
10,000'	Top Leonard A - 9330'			Production Casing @ 10,465' 7" 26# HCL-80 LTC Cement w/ 250 sx 60:40:0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.25% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3.674 yld), followed by 200 sx 50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.50% SMS + 5.0% Salt + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.379 yld), followed by 225 sx 50:50:2 Class H + 0.65% FL-52 + 0.50% CD-32 + 0.35% SMS + 2.0% Salt + 0.005% GPS FP-6L (14.2 ppg, 1.28 yld). Bump plug w/ 2160 psi. Did							
	1st Bone Spring Sand - 10,290'										
	PTD - ~10,450'										
				TD @ 10,465'							

Drig Eng:	S. Munsell
Date:	7/11/2012

Item 4

EOG Resources, Inc
1/2 Mile Area of Review
Application for Authorization to Inject Black Bear 36 State 5

Operator	Lease/Well	Status	Location	Spud Date	TMD	Surface Casing			Production Casing			Producing Perforations
						Size	Depth	Cement	Size	Depth	Cement	
Pre-Ongard	"Unknown" Federal 1	P&A 1/1962	Sec 25, T25S, R33E	12/19/1961	5340'	8 5/8	373	250 sx	4 1/2	5340'	200 sx	P&A
Pre-Ongard	State 36 #1	P&A 7/1985	Sec 36, T25S, R33E	12/12/1983	5344'	8 5/8	462	305 sx	5 1/2	5344'	700 sx	P&A

Unknown Federal #1

660' FSL & 660' FEL

Sec. 25-25S-33E

Lea County, New Mexico

30-025-08389

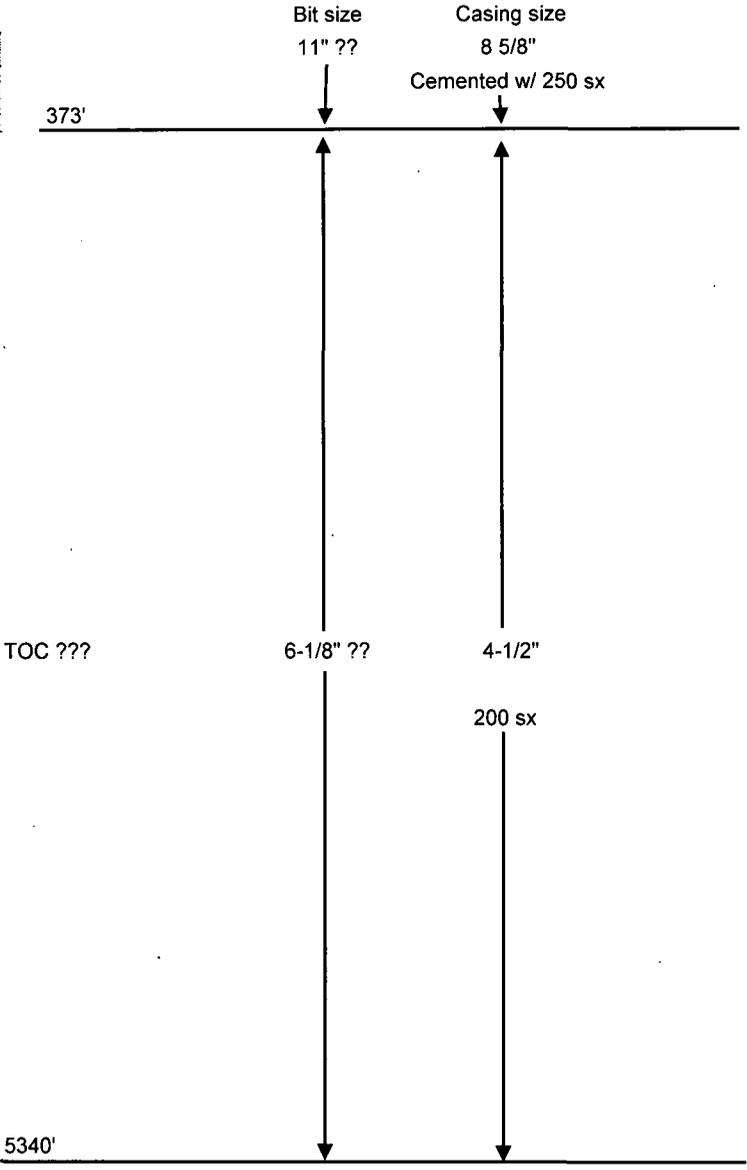
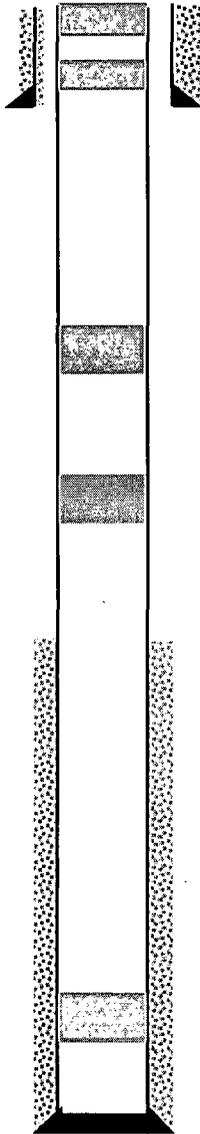
15 sx surface plug

15 sx plug @ 358'

25 sx plug 1000 - 1040'

20 sx plug 1340 - 1390'

25 sx plug 5150 - 5200'



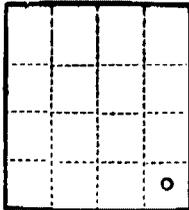
TD 5340'

APPROVED

Form 9-281a
(Feb. 1961)

1962

Budget Bureau No. 42-2388.4
Approval expires 12-31-60.



EWS
E. W. STANLEY
DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office

Lease No. **LC 067779**

Unit *U.S.G.*

JAN 8 1962

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

*Inspected 2-2-62
OK for submit JBS*

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 4, 1962

Well No. **1-25** is located **660** ft. from **S** line and **660** ft. from **E** line of sec. **25**

SE 1/4 SE 1/4, Sec. 25 **25-S** **33-E** **NMPM**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat **Lea** **New Mexico**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **3331** ft.

NOTED - HUBB

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Operator drilled well to a total depth of 5,340 feet, and plugged and abandoned as follows:

- 25 sx cement plug from 5150 to 5200 feet;
- 20 sx cement plug from 1340 to 1390 feet;
- 20 sx cement plug from 1000 to 1040 feet;
- 15 sx cement plug in bottom of surface casing at 358 feet; and
- 15 sx cement plug in top of surface casing with a welded steel marker with the name of the operator, well and location thereon.

Operator plugged and abandoned well January 3, 1962, following telephone approval of the above by Mr. E. W. Stanley, Hobbs, New Mexico.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **ASHMUN & HILLIARD**

Address **1606 Wilco Building**

Midland

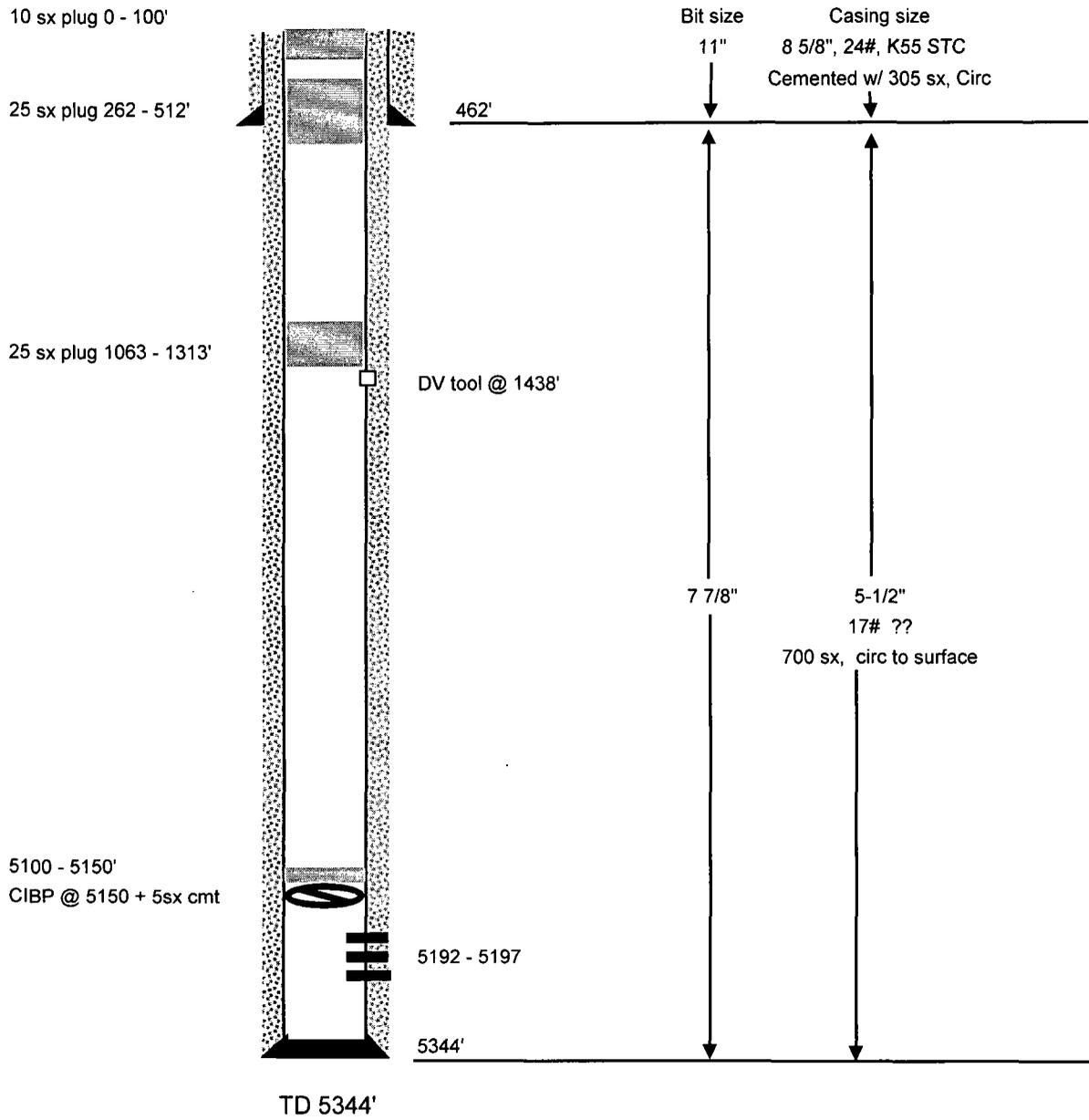
Texas

By *[Signature]*

Title **Partner**

30-025-08389

State 36 #1
 1980' FNL & 1980' FEL
 Sec. 36-25S-33E
 Lea County, New Mexico
 30-025-28502



OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-75

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State Fee
5. State Oil & Gas Lease No.
NM-1403

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.

OIL WELL GAS WELL OTHER
6. Name of Operator
The Superior Oil Company
7. Unit Agreement Name
8. Farm or Lease Name
State "36"
9. Well No.
1
10. Field and Pool, or Wellcat
Salado Draw, North
UNIT LETTER G 1980 FEET FROM THE North LINE AND 1980 FEET FROM
THE East LINE, SECTION 36 TOWNSHIP 25^Q RANGE 33E NMPM.
15. Elevation (Show whether DF, RT, GR, etc.)
3317 GL; 3327 KB
12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK
TEMPORARILY ABANDON
PULL OR ALTER CASING
OTHER
PLUG AND ABANDON
CHANGE PLANS

SUBSEQUENT REPORT OF:

REMEDIAL WORK
COMMENCE DRILLING OPS.
CASING TEST AND CEMENT JOB
OTHER
ALTERING CASING
PLUG AND ABANDONMENT

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

- 7-5-85 MIRU DA & S WS.
- 7-6-85 POH w/164 jts 4.7# J55 2-3/8 tbg. RIH w/5-1/2" CIBP & set @ 5150'. RIH w/164 jts 2-3/8" open ended tbg to 5100.
- 7-7-85 Capped CIBP w/5sx Class C Neat - 50' plug, test to 1000#, 30 min, ok, spot 25sx Class C Neat @ 1313-1063, spot 25sx Class C Neat 262-512', spot 10sx Class C Neat 0-100', cut off 8-5/8" csg 4' below ground, weld on steel plate, instl dry hole marker, fill in cellar, clean location, RD DA&S WS, rel rig, job complete 7-6-85.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

MADE BY Nancy Lewis TITLE MOORE PRODUCING TX & N.M. INC. AS AGENT FOR THE SUPERIOR OIL COMPANY DATE 7-15-85

APPROVED BY R. J. Kallie TITLE OIL & GAS INSPECTOR DATE MAR 24 1986

CONDITIONS OF APPROVAL, IF ANY:



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(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	POD Code	Subbasin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
------------	----------	----------	--------	---	---	---	-----	-----	-----	---	---	------------	-------------	--------------

C 02313			LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40
---------	--	--	----	---	---	---	----	-----	-----	--------	----------	-----	-----	----

Average Depth to Water: **110 feet**

Minimum Depth: **110 feet**

Maximum Depth: **110 feet**

Record Count: 1

PLSS Search:

Section(s): 26

Township: 25S

Range: 33E

*UTM location was derived from PLSS - see Help

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.

Affidavit of Publication

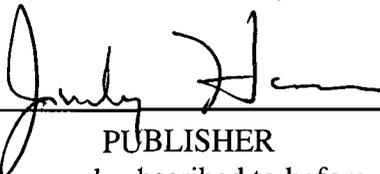
State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

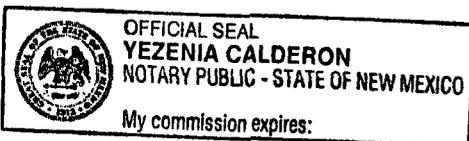
Beginning with the issue dated
June 15, 2012
and ending with the issue dated
June 15, 2012


PUBLISHER

Sworn and subscribed to before me
this 15th day of
June, 2012


Notary Public

My commission expires
February 28, 2016
(Seal)



This newspaper is duly qualified to
publish legal notices or
advertisements within the meaning of
Section 3, Chapter 167, Laws of
1937 and payment of fees for said
publication has been made.

LEGAL NOTICE JUNE 15, 2012

EOG Resources, Inc., PO Box 2267, Midland, TX 79702, will file form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for water injection wells.

The **Black Bear 36 State No. 5** is located 1420' FNL & 1320' FEL, Section 36, Township 25 South, Range 33 East, Lea County, New Mexico. Injection water will be sourced from area wells producing from the Bone Spring formation. The injection water will be injected into the Delaware formation at a depth of 5200'-7200', a maximum surface pressure of 2000 psi, and a maximum rate of 10000 BWIPD.

All interested parties opposing the action 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. Additional information may be obtained by contacting Stan Wagner at PO Box 2267, Midland, TX 79702, or 432-686-3600.

#27406

01105308

00094789

STAN WAGNER
EOG RESOURCES, INC.
P.O. BOX 2267
MIDLAND, TX 79702



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

June 27, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

Re: Application of EOG Resources, Inc. for administrative approval of
a Saltwater Disposal Well, Lea, County, New Mexico.

To Whom it May Concern,

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a saltwater disposal injection well: the **Black Bear 36 State Well No. 5** located 1420 feet from the North line and 1320 feet from the East line of Section 36, Township 25 South, Range 33 East, NMPM, Lea County, New Mexico. EOG proposes to inject water produced from the Bone Spring formation into the interval of the Delaware formation at a measured depth of 5200 feet to 7200 feet. The injection will occur with a maximum injection pressure of 2000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

This application is provided to you as owner of the surface of the land upon which the subject well is located. If you object to this application your objection must be filed in writing with the Santa Fe Office of the Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days of the date of this letter. If there is no objection, the Division Director may approve this application.

Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink that reads "Stan Wagner".

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

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 Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (*Extra Fee*)

Yes

2. Article Number
(Transfer from)

7010 3090 0001 8450 9306

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Tuesday, August 28, 2012 3:24 PM
To: Stan_Wagner@eogresources.com
Cc: Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD
Subject: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585 Delaware from 5200 to 7200 feet

Hello Stan,
Just providing you some feedback,

- (1) This area was tried for oil production out of the upper Delaware – around 5200 feet. All the wells are plugged out. Your application is over 2000 feet of Delaware section. Do you think it would hurt to start your perfs at 5300 feet instead of 5200 feet? This would distance it from the teaser oil interval and also move it down from your approx.. 5000 feet cement job on the 7 inch casing. Let me know?
- (2) Would you send a geologist's writeup on the producability of the proposed disposal interval. If that was backed up by a mudlog also, that would be good or a water saturation vs depth plot.
- (3) I only got a black and white map of the ownership area. Does EOG own the lands in Unit letters O and P of Section 25 to the north?
- (4) Send the list of wells in the Area of Review and wellbore diagrams for all plugged wells in the AOR. It looks to me there are two wells besides the subject well.
- (5) Send a fresh water analysis from the fresh water well.
- (6) You only have a CBL on this well – what cased hole logs will be run prior to perforating?
- (7) Please ask your geologist to pick tops of the members of the Delaware (if those members exist in this area) and the top of the Bone Spring.
- (8) Send another post conversion well bore diagram of this well showing the actual casing depths and cement volumes run and actual cement tops. The data in the application is before that well was spud.

Thanks in advance for this,

William V. Jones, P.E.
505-476-3448W 505-476-3462F
Engineering Bureau, Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



To: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
 Cc:
 Bcc:
 Subject: Re: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585 Delaware from 5200 to 7200 feet

RECEIVED OCD

2012 SEP 20 7:41:30

"Jones, William V., EMNRD" Hello Stan, Just providing you some fe... 08/28/2012 04:23:27 PM

From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
 To: "Stan_Wagner@eogresources.com" <Stan_Wagner@eogresources.com>,
 Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Kautz, Paul, EMNRD" <paul.kautz@state.nm.us>
 Date: 08/28/2012 04:23 PM
 Subject: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585 Delaware from 5200 to 7200 feet

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✓ Yes. 5300' will be fine.

(2) Would you send a geologist's writeup on the producability of the proposed disposal interval. If that was backed up by a mudlog also, that would be good or a water saturation vs depth plot.

✓ Geologist's write-up is being mailed to you.

(3) I only got a black and white map of the ownership area. Does EOG own the lands in Unit letters O and P of Section 25 to the north?

Land has determined units O & P of section 25 is owned by COG Operating, LLC. A copy of our application will be mailed to them.

(4) Send the list of wells in the Area of Review and wellbore diagrams for all plugged wells in the AOR. It looks to me there are two wells besides the subject well.

✓ The well list and and diagrams are in the mailing.

(5) Send a fresh water analysis from the fresh water well.

✓ Water analysis in in the mailing.

(6) You only have a CBL on this well – what cased hole logs will be run prior to perforating?

(7) Please ask your geologist to pick tops of the members of the Delaware (if those members exist in this area) and the top of the Bone Spring.

✓ Tops are in the geological write-up.

2

2

(8) Send another post conversion well bore diagram of this well showing the actual casing depths and cement volumes run and actual cement tops. The data in the application is before that well was spud.

In the hard copy mailing.

Thanks in advance for this,

William V. Jones, P.E.

505-476-3448W 505-476-3462F

Engineering Bureau, Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505



RE: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585
 Delaware from 5200 to 7200 feet
 Jones, William V., EMNRD
 to:
 Stan_Wagner@eogresources.com
 09/24/2012 03:10 PM
 Cc:
 "Ezeanyim, Richard, EMNRD"
 Hide Details
 From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
 To: "Stan_Wagner@eogresources.com" <Stan_Wagner@eogresources.com>,
 Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>
 History: This message has been replied to.

Hello Stan,
 Hope all is well.

I today just looked over the items you sent and looks like I only now need:

- a. Answer to (6) below
- b. Proof of mailing to Concho - showing certified number and date of mailing.

If you have already sent, I apologize.

Regards,

Will Jones

From: Jones, William V., EMNRD
Sent: Tuesday, August 28, 2012 3:24 PM
To: Stan_Wagner@eogresources.com
Cc: Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD
Subject: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585 Delaware from 5200 to 7200 feet

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1. Article Addressed to:

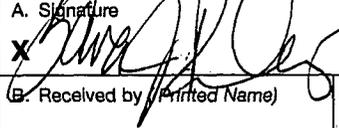
COG Operating LLC
550 W. Texas Ave., Ste 1300
Midland, TX 79701

2. Article
(Trac)

7009 3410 0000 0951 3789

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X 

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

1/24/12

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

3. Service Type

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

4. Restricted Delivery? (Extra Fee) Yes

Re: Fw: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5
30-025-40585 Delaware from 5200 to 7200 feet 

Joe Villalobos to: Stan Wagner
Cc: Ron Willett, Charlie Aupied

08/29/2012 03:06 PM

Black Bear 36 State No.5 SWD / WATER DISPOSAL PERMIT WRITEUP.

Review of the wells near the proposed SWD well, the Black Bear 36 State No.5 indicate that the Bell Canyon and Cherry Canyon formations (Delaware Mtn.Group) to be the the most prospective interval for salt-water disposal. Prospective sands for water disposal are between 5300-7070' (1770'). This proposed injection interval is stratigraphically equivalent to that of the Lomas Rojas State Com No.6 SWD (located 1 ½ mi nw), which is injecting into the Delaware Bell Canyon and Cherry Canyon formations (5159-6928').

Four wells drilled within 1.5 mile of the subject well failed to establish commercial production in upper Delaware. The Superior Oil State 36 No.1 (TD 5344'), located 700' sw of the subject well IP'd for 22 bopd and 90 bw from the Delaware sand (perms 5192-97') in 01/84. This well was plugged and abandoned in 07/85 after producing 719 bo and 4759 bw. Two additional Delaware tests were drilled in this section, the Ashmun & Hilliard Lea-State 36 No.1 (3425' w) was P&A'd in 03/62 after drilling to a TD of 5298'. Another well, the Max Wilson Marathon State No.1 (located 4500' sw) was P&A'd in 03/63 after reaching a TD of 5245'. Another Delaware test, the Ashmun & Hilliard Federal No.1 (TD 5340') in section 25 (2400 ne) was P&A'd in 01/62 after reaching a TD of 5340 and testing the Delaware.

A mudlog of the Black Bear 36 State No.5 does not show any oil shows or noteworthy gas increases through the proposed injection interval (5300-7070').

Based on the EOG Resources Black Bear 36 State No.5 well (TD 10,450') as seen in the JSI Cement Bond Gamma Ray CCL log (07/26/2012) the tops for the subject well are:

Bell Canyon	5184'
Cherry Canyon	6216'
Brushy Canyon	7846'
Bone Spring Lm.	9368'

Joe Villalobos
EOG Resources, Inc.
4000 N. Big Spring, Suite 500
Midland, TX 79705

joe_villalobos@eogresources.com
432-686-3779 (office)
432-686-3686 (office fax)
432-894-1246 (cell)

Re: Fw: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5
30-025-40585 Delaware from 5200 to 7200 feet 
Dan McCright to: Stan Wagner

08/31/2012 10:54 AM

Units O & P of Section 25, T25S, R33E, Lea Co, NM appear to be subject to Oil & Gas Lease NMNM - 114981 owned by COG Operating, LLC, 550 W. Texas Ave., Suite 1300, Midland, TX 79701.

D:H. McCright

EOG Resources, Inc.
direct: 432-686-3741
fax: 432-686-3773
e-mail: dan_mccright@eogresources.com

Stan Wagner Dan, would you address item #3. Thanks. ----- F... 08/31/2012 10:32:28 AM

From: Stan Wagner/EOGResources
To: Dan McCright/EOGResources@EOGResources,
Date: 08/31/2012 10:32 AM
Subject: Fw: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585 Delaware from 5200 to 7200 feet

Dan, would you address item #3. Thanks.
----- Forwarded by Stan Wagner/EOGResources on 08/31/2012 10:31 AM -----

From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
To: "Stan_Wagner@eogresources.com" <Stan_Wagner@eogresources.com>,
Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Kautz, Paul, EMNRD" <paul.kautz@state.nm.us>
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Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, September 24, 2012 2:08 PM
To: Stan_Wagner@eogresources.com
Cc: Ezeanyim, Richard, EMNRD
Subject: RE: Disposal application from EOG Resources, Inc.: Black Bear 36 State #5 30-025-40585 Delaware from 5200 to 7200 feet

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Salado Draw, DEL NE

Injection Permit Checklist (11/15/2010)

WFX PMX SWD 1359 Permit Date 10/9/12 UIC Qtr (0/N/D)

Wells 1 Well Name(s): BLACK BEAR 36 STATE #5

API Num: 30-025-40585 Spud Date: 6/26/12 New/Old: N (UIC primacy March 7, 1982)

Footages Unit H Sec 36 Tsp 255 Rge 33E County LEA

General Location: (1420FNL/1320FEL)

Operator: EOG RESOURCES, INC. Contact: STAN WARNER

OGRID: 7377 RULE 5.9 Compliance (Wells) 4/458 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed Current Status: Drilled or plugged well

Planned Work to Well:

Diagrams: Before Conversion After Conversion Elogs in Imaging File: No other logs run with this submission

Send New

9

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
	Hole.....	Pipe				
New Existing Surface	17 1/2	13 7/8	91069		500' 300'	CIRC
New Existing Interm	12 1/4	9 5/8	5039'	1125'	500'	CIRC
New Existing LongSt	8 3/4	7	10965'		810	4500' EBL
New Existing Liner						5000' EBL
New Existing OpenHole						

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	5180'	Del	✓

Injection TOP:	5200 MD	Bell C Del	Max. PSI 1050	OpenHole	Perfs ✓
Injection BOTTOM:	7070 MD	Cherry Del	Tubing Size 3 1/2	Packer Depth 5200'	

Formation(s) Below	6216	Cherry C	✓
	7846	Bushy C	✓
	9368	B.S.	✓

Capitan Reef? (Potash? Noticed?) WIPP? Noticed? Salado Top/Bot 1150-4800' Cliff House?

Fresh Water: Depths: <250' Formation Ogalala/KAL Wells? 1 Analysis? yes Affirmative Statement ✓

Disposal Fluid Analysis? Sources: B.S. (UPPER B.S. Drilling Planned)

Disposal Interval: Analysis? Production Potential/Testing: Sand

Notice: Newspaper Date 6/5/12 Surface Owner S.L.O. 6/21/12 Mineral Owner(s)

RULE 26.7(A) Affected Persons: only EOG, CONCERNED HERE BUT PLUGGED

AOR: Maps? Well List? Producing in Interval? Top Wellbore Diagrams? ✓

.....Active Wells 0 Repairs? Which Wells?

.....P&A Wells 2 Repairs? Which Wells?

Issues: owner in UNITS 0, P of Sec 25? (1 location west) 5190-5200 = 22/90/1