

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-34466
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: MacKenzie 13 Fee
8. Well Number 4H
9. OGRID Number 7377
10. Pool name or Wildcat Cottonwood Creek; Wolfcamp, West Gas

Pit or Below-grade Tank Application ☐ or Closure ☐
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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.)

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other _____

2. Name of Operator
EOG Resources Inc.

3. Address of Operator
P.O. Box 2267 Midland, Texas 79702

4. Well Location
Unit Letter **P** : **660** feet from the **South** line and **760** feet from the **East** line
Section **13** Township **16S** Range **24E** NMPM County **Eddy**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3577 GR

RECEIVED

APR 26 2006

OCD-ARTESIA

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
MULTIPLE COMPLETION ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐	OTHER: completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

3/8/06 TD lateral @ 8356' MD.

3/10/06 Ran 209 jts 4 1/2", 11.6 #, P-110 casing set @ 8335'.

Cemented w/ 540 sx Interfill C, 11.9 ppg, 2.45 yield; 240 sx Premium Acid Soluble, 14.8 ppg, 2.57 yield. CIRC 294 sx cement to surface.

3/11/06 Released rig @ 6:00 AM.

3/14/06 MIRU completion rig. Tested 4 1/2" casing in stages to 8100 psi. Test good.

3/17/06 Perforated from 6800' to 8200', 0.48", 50 holes.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 4/3/06

Type or print name Stan Wagner

E-mail address:

Telephone No. 432 686 3689

For State Use Only

APPROVED BY FOR RECORDS ONLY TITLE _____ DATE APR 26 2006

Conditions of Approval, if any:

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5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

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.)		7. Lease Name or Unit Agreement Name: MacKenzie 13 Fee
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	RECEIVED	8. Well Number 4H
2. Name of Operator EOG Resources Inc.	APR 26 2006	9. OGRID Number 7377
3. Address of Operator P.O. Box 2267 Midland, Texas 79702	OC-D-ARTESIA	10. Pool name or Wildcat Cottonwood Creek; Wolfcamp, West Gas
4. Well Location Unit Letter P : 660 feet from the South line and 760 feet from the East line Section 13 Township 16S Range 24E NMPM County Eddy		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3577 GR		
Pit or Below-grade Tank Application ☐ or Closure ☐ Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐ OTHER: ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐ CASING TEST AND CEMENT JOB ☐ OTHER: completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

3/28/06 Frac w/ 42 bbls 15% HCL acid, 46300 lbs 100 mesh sand, 62800 lbs 30/70 sand, 54300 lbs 20/40 sand, 10645 bbls fresh water.
Perforated from 5050' to 6450', 48 holes.
Frac w/ 215 bbls 15% HCL acid, 6800 lbs 100 mesh sand, 86900 lbs 30/70 sand, 68600 lbs 20/40 sand, 10395 bbls fresh water.
3/29/06 Begin flowing back to clean up well.
4/01/06 Turned well to sales.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 4/3/06
Type or print name Stan Wagner E-mail address: _____ Telephone No. 432 686 3689

For State Use Only

APPROVED BY FOR RECORDS ONLY TITLE _____ DATE APR 26 2006
Conditions of Approval, if any: _____

[illegible][illegible]

Page 1

		Mackenzie 13		Fee #4H	Gyro		
700.00	699.54	16.80	4.12	7.13	16.80	0.77	0.63
800.00	799.31	23.51	3.63	7.54	23.50	1.63	0.49
900.00	899.12	29.65	3.46	6.80	29.64	2.40	0.17
1000.00	998.95	35.30	3.07	7.01	35.29	3.09	0.40
1100.00	1098.82	40.42	2.89	11.59	40.42	3.92	0.30
1200.00	1198.72	44.67	2.11	15.28	44.66	4.91	0.79
1300.00	1298.66	47.96	1.91	25.51	47.95	6.11	0.41
1400.00	1398.61	50.84	1.70	22.60	50.82	7.40	0.23
1500.00	1498.57	53.44	1.45	13.02	53.42	8.26	0.36
1600.00	1598.55	55.46	0.90	5.18	55.44	8.61	0.57
1700.00	1698.54	56.99	0.94	335.73	56.98	8.35	0.47
1800.00	1798.53	57.93	0.27	323.04	57.91	7.87	0.68
1900.00	1898.53	58.23	0.35	291.40	58.21	7.45	0.18
2000.00	1998.53	58.17	0.36	239.20	58.16	6.89	0.31
2100.00	2098.53	57.97	0.28	259.66	57.95	6.38	0.14
2200.00	2198.53	57.58	0.50	218.38	57.57	5.87	0.34
2300.00	2298.52	57.01	0.54	239.66	56.99	5.20	0.20
2400.00	2398.51	56.31	0.68	220.22	56.30	4.41	0.25
2500.00	2498.51	55.78	0.60	260.63	55.77	3.51	0.45
2600.00	2598.50	55.37	1.11	250.97	55.37	2.08	0.53
2700.00	2698.47	54.51	1.38	243.28	54.51	0.09	0.31
2800.00	2798.45	53.40	1.16	235.85	53.40	-1.83	0.27
2900.00	2898.43	52.54	0.95	250.00	52.55	-3.45	0.33
3000.00	2998.42	51.83	1.05	242.52	51.84	-5.04	0.16
3100.00	3098.40	51.12	0.69	242.32	51.14	-6.39	0.36
3200.00	3198.39	50.47	0.88	241.52	50.49	-7.60	0.19
3300.00	3298.38	49.71	0.95	241.65	49.73	-9.00	0.07
3400.00	3398.37	49.07	0.99	253.80	49.10	-10.56	0.21
3500.00	3498.35	48.77	0.91	265.98	48.80	-12.18	0.22
3600.00	3598.34	48.55	0.92	258.42	48.58	-13.76	0.12
3700.00	3698.33	48.38	0.84	269.12	48.41	-15.28	0.18
3800.00	3798.32	48.13	0.59	243.49	48.17	-16.47	0.40
3900.00	3898.31	47.34	0.97	228.69	47.38	-17.57	0.42
4000.00	3998.30	46.15	0.84	210.09	46.19	-18.57	0.32
4100.00	4098.29	44.99	0.64	200.36	45.03	-19.13	0.24
4138.00	4136.29	44.62	0.51	171.74	44.66	-19.18	0.82

Mackenzie 13 Fee #4H Final Survey
2.00: PATHFINDER ENERGY SERVICES LAS - Version 2.00
NO: One line per depth step

~Version Information

VERS.

WRAP.

~Well Information

START.FT 4201.0000:

STOP.FT 8305.0000:

STEP.FT 0.0000:

NULL. -999.25:

COMP. E.O.G RESOURCES: COMPANY

WELL. MACKENZIE 13 FEE #4 H: WELL

FLD. COTTONWOOD CREEK: FLD

SRVC. Pathfinder Energy Services: SERVICE COMPANY

LOC. : LOCATION

DATE. 08-Mar-06: LOG DATE

UWI. 30-015-34466: API NUMBER

APD .FT 17.00: ELEVATION ABOVE PERMANENT DATUM

CNTY. EDDY: COUNTY

CTRY. USA: COUNTRY

DMF. ROTARY TABLE: DRILLING-LOG MEASURED FROM

EPD .FT 3577.00: ELEVATION OF PERMANENT DATUM

"FL1. LAT;32A55'2""N LAT;104A32'7""W: WELL LOCATION 1"

"FL2. X;437,977' Y;697,547': WELL LOCATION 2"

PDAM. GROUND LEVEL - MEAN SEA LEVEL: ELEVATION OF PERMANENT DATUM REF

PDAT. GROUND LEVEL: PERMANENT DATUM

STAT. NM: STATE

~Parameter Information

BHB1.IN

BHF1.FT

BH01.FT

BHB2.IN

BHF2.FT

CTS1.IN

CTF1.FT

CTO1.FT

DCOM.

RIG .

LUN .

DIST.

SPUD.

STDT.

SDEP.FT

ENDT.

EDEP.FT

TDEP.FT

9 7/8: BOREHOLE REC; BIT 1

0: BOREHOLE REC; FROM 1

955: BOREHOLE REC; TO 1

6 1/8: BOREHOLE REC; BIT 2

955: BOREHOLE REC; FROM 2

7: CASING & TUBING REC; SIZE 1

0: CASING & TUBING REC; FROM 1

955: CASING & TUBING REC; TO 1

KEY: DRILLING COMPANY

463: DRILLING RIG

BOX KIT: LOGGING UNIT NUMBER

WEST TEXAS: DISTRICT

24-FEB-06: SPUD DATE

25-FEB-06: START DATE

4247: DEPTH IN

8-MAR-06: LWD END DATE

8356: DEPTH OUT

8356: TOTAL DEPTH

Mackenzie 13 Fee #4H Final Survey

RA01.
RB01.
RC01.
RD01.
RE01.
RF01.FT
RG01.FT
RH01.FT
RI01.FT
RJ01.IN
RU01.
MB01.FT
MD01.
ME01.LB/GAL
MF01.S/QT
MG01.
MH01.PPM
MK01.DEGF
RA02.
RB02.
RC02.
RD02.
RE02.
RF02.FT
RG02.FT
RH02.FT
RI02.FT
RJ02.IN
RU02.
MB02.FT
MD02.
ME02.LB/GAL
MF02.S/QT
MG02.
MH02.PPM
MK02.DEGF
RA03.
RB03.
RC03.
RD03.
RE03.
RF03.FT
RG03.FT
RH03.FT

1: RUN NUMBER 01
25-FEB-06: START DATE - RUN 01
21:00: START TIME - RUN 01
28-FEB-06: END DATE - RUN 01
15:00: END TIME - RUN 01
4247: DEPTH IN - RUN 01
4722: DEPTH OUT - RUN 01
4212: LOG TOP - RUN 01
4687: LOG BOTTOM - RUN 01
6 1/8: HOLE SIZE - RUN 01
WESLEY OTTO: ENGINEER #1 - RUN 01
4108: MUD DEPTH - RUN 01
WATER: MUD TYPE - RUN 01
9.20: DENSITY - RUN 01
29: VISCOSITY - RUN 01
9.0: PH - RUN 01
105000: SALINITY - RUN 01
101: MAX REC TEMP - RUN 01
2: RUN NUMBER 02
28-FEB-06: START DATE - RUN 02
16:00: START TIME - RUN 02
2-MAR-06: END DATE - RUN 02
14:00: END TIME - RUN 02
4722: DEPTH IN - RUN 02
5101: DEPTH OUT - RUN 02
4687: LOG TOP - RUN 02
5067: LOG BOTTOM - RUN 02
6 1/8: HOLE SIZE - RUN 02
WESLEY OTTO: ENGINEER #1 - RUN 02
4700: MUD DEPTH - RUN 02
WATER: MUD TYPE - RUN 02
9.20: DENSITY - RUN 02
29: VISCOSITY - RUN 02
9.0: PH - RUN 02
105000: SALINITY - RUN 02
97: MAX REC TEMP - RUN 02
3: RUN NUMBER 03
2-MAR-06: START DATE - RUN 03
15:00: START TIME - RUN 03
8-MAR-06: END DATE - RUN 03
15:00: END TIME - RUN 03
5101: DEPTH IN - RUN 03
8356: DEPTH OUT - RUN 03
5067: LOG TOP - RUN 03

[illegible]

4583.00	4543.35	43.00	0.99	182.57	182.61	-14.39	11.03
4615.00	4566.26	45.55	0.90	204.91	204.94	-14.02	7.97
4647.00	4588.00	48.80	1.16	228.37	228.40	-13.60	10.18
4678.00	4607.77	51.97	0.84	252.25	252.28	-13.18	10.24
4710.00	4626.72	55.40	0.56	278.03	278.06	-12.87	10.74
4742.00	4644.09	58.83	359.95	304.89	304.92	-12.75	10.83
4774.00	4659.96	61.73	358.27	332.67	332.71	-13.19	10.15
4806.00	4674.44	64.46	356.86	361.18	361.21	-14.41	9.39
4838.00	4687.57	67.09	355.65	390.29	390.33	-16.31	8.93
4869.00	4698.68	70.87	354.77	419.11	419.16	-18.73	12.47
4900.00	4707.82	74.83	353.54	448.57	448.62	-21.75	13.33
4932.00	4715.22	78.44	352.38	479.45	479.51	-25.57	11.80
4964.00	4720.57	82.31	351.76	510.68	510.75	-29.92	12.24
4996.00	4723.83	86.00	351.66	542.17	542.25	-34.51	11.55
5028.00	4724.93	90.04	352.39	573.82	573.91	-38.95	12.84
5060.00	4724.74	90.66	353.39	605.57	605.67	-42.91	3.68
5092.00	4723.83	92.59	355.79	637.40	637.51	-45.92	9.62
5157.00	4721.98	90.66	357.46	702.25	702.36	-49.75	3.94
5221.00	4722.55	88.32	357.63	766.18	766.30	-52.48	3.67
5285.00	4723.91	89.25	358.15	830.11	830.24	-54.84	1.66
5349.00	4724.30	90.04	359.21	894.09	894.22	-56.32	2.06
5382.00	4724.43	89.52	358.56	927.08	927.21	-56.96	2.54
5445.00	4724.38	90.57	359.30	990.06	990.20	-58.14	2.05
5509.00	4723.20	91.54	0.37	1054.05	1054.19	-58.33	2.25
5573.00	4721.63	91.28	0.91	1118.03	1118.16	-57.61	0.94
5637.00	4720.70	90.40	0.44	1182.02	1182.15	-56.86	1.55
5700.00	4719.68	91.45	0.49	1245.01	1245.14	-56.35	1.68
5764.00	4718.01	91.54	0.70	1308.98	1309.11	-55.69	0.36
5828.00	4716.90	90.45	0.50	1372.97	1373.10	-55.02	1.73
5892.00	4716.04	91.10	0.31	1436.96	1437.09	-54.56	1.06
5954.00	4715.23	90.40	0.44	1498.96	1499.09	-54.16	1.15
6018.00	4714.20	91.45	0.73	1562.95	1563.07	-53.51	1.71
6081.00	4712.55	91.54	1.63	1625.91	1626.04	-52.21	1.44
6146.00	4710.96	91.28	2.04	1690.87	1690.98	-50.13	0.75
6209.00	4709.89	90.66	1.27	1753.83	1753.95	-48.31	1.57
6273.00	4709.35	90.31	1.68	1817.81	1817.92	-46.66	0.85
6336.00	4709.16	90.04	3.32	1880.76	1880.86	-43.91	2.62
6400.00	4708.57	91.01	4.25	1944.62	1944.72	-39.69	2.10
6464.00	4707.93	90.13	3.68	2008.48	2008.56	-35.27	1.63
6527.00	4708.17	89.43	0.26	2071.43	2071.51	-33.10	5.55
6591.00	4708.32	90.31	359.99	2135.43	2135.51	-32.96	1.43
6656.00	4707.97	90.31	359.46	2200.43	2200.51	-33.27	0.81
6720.00	4707.19	91.10	1.36	2264.42	2264.50	-32.81	3.21
6783.00	4708.06	87.32	1.00	2327.39	2327.47	-31.51	6.03

6847.00	4710.61	88.11	0.82	2391.33	2391.41	-30.50	1.27
6909.00	4711.94	89.43	359.56	2453.32	2453.39	-30.30	2.93
6973.00	4712.19	90.13	358.88	2517.31	2517.39	-31.16	1.53
7037.00	4711.75	90.66	358.59	2581.29	2581.37	-32.58	0.94
7101.00	4710.62	91.36	358.27	2645.25	2645.33	-34.33	1.20
7165.00	4709.34	90.92	358.66	2709.21	2709.30	-36.05	0.92
7229.00	4707.13	93.03	358.98	2773.15	2773.24	-37.37	3.34
7293.00	4703.99	92.59	358.66	2837.06	2837.15	-38.68	0.84
7357.00	4701.04	92.68	359.08	2900.97	2901.07	-39.94	0.66
7421.00	4698.39	92.07	358.68	2964.90	2965.00	-41.20	1.15
7486.00	4695.95	92.24	358.94	3029.84	3029.94	-42.55	0.48
7550.00	4694.38	90.57	358.72	3093.80	3093.91	-43.85	2.63
7614.00	4694.33	89.52	0.11	3157.79	3157.90	-44.50	2.73
7678.00	4694.23	90.66	0.10	3221.79	3221.90	-44.39	1.79
7742.00	4692.85	91.80	0.16	3285.77	3285.88	-43.69	2.44
7805.00	4691.79	90.13	0.37	3348.76	3348.86	-42.85	2.93
7868.00	4692.52	88.55	358.78	3411.75	3411.85	-43.32	3.57
7932.00	4693.30	90.04	359.21	3475.73	3475.84	-44.44	2.43
7996.00	4693.15	90.22	359.35	3539.72	3539.83	-45.24	0.35
8060.00	4693.35	89.43	358.78	3603.71	3603.82	-46.29	1.53
8124.00	4693.55	90.22	358.72	3667.69	3667.81	-47.68	1.24
8188.00	4693.25	90.31	359.04	3731.67	3731.79	-48.93	0.51
8252.00	4693.25	89.69	359.03	3795.66	3795.78	-50.01	0.96
8305.00	4693.66	89.43	358.93	3848.65	3848.77	-50.95	0.53