

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOC
NM OIA CONSERVATION
ARTESIA DISTRICT
NOV 16 2017

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM120350

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator CIMAREX ENERGY COMPANY OF OK Contact: KIMBERLEIGH RHODES Email: KiRhodes@cimarex.com		8. Lease Name and Well No. HORNSBY 35 FEDERAL COM 4H	
3. Address 202 S CHEYENNE AVE SUITE 1000 TULSA, OK 74103.4346		9. API Well No. 30-015-42166-00-S1	
3a. Phone No. (include area code) Ph: 918-560-7081		10. Field and Pool, or Exploratory HAY HOLLOW-BONE SPRING	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot 3 290FSL 2110FWL Sec 35 T26S R27E Mer NMP At top prod interval reported below Lot 3 290FSL 2110FWL Sec 26 T26S R27E Mer NMP At total depth NENW 330FNL 1708FWL		11. Sec., T., R., M., or Block and Survey or Area Sec 35 T26S R27E Mer NMP	
14. Date Spudded 04/12/2017		15. Date T.D. Reached 05/06/2017	
16. Date Completed ☐ D & A ☒ Ready to Prod. 07/21/2017		17. Elevations (DF, KB, RT, GL)* 3225 GL	
18. Total Depth: MD 14536 TVD 7709		19. Plug Back T.D.: MD 14512 TVD 7709	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) 3225 GL	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	48.0	0	410	0	C 515		0	0
12.250	9.625 J-55	36.0	0	2195	0	C 900		0	0
8.500	5.500 L-80	17.0	0	14502	0	H 2650		0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7236	7236						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7853	14463	7853 TO 14463	0.420	1280	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7853 TO 14463	299668 BBLs TOTAL FLUID AND 16118910 # SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/21/2017	08/07/2017	24	→	308.0	951.0	1746.0	49.3		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
40/64	SI 520	0.0	→	308	951	1746	3088	PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #390867 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** DAVID R. GLASS
PETROLEUM ENGINEER

RECLAMATION DUE:

JAN 21 2018

ACCEPTED FOR RECORD
OCT 18 2017

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
CAPTURED

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
BELL CANYON	2333	3312	WATER	BELL CANYON	2333
CHERRY CANYON	3453	4280	WATER	CHERRY CANYON	3453
BRUSHY CANYON	5268	5574	WATER	BRUSHY CANYON	5268
BONE SPRING	7380	7725	OIL\GAS\WATER	BONE SPRING	7380

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #390867 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by DAVID GLASS on 10/18/2017 (18DRG0008SE)**

Name (please print) KIMBERLEIGH RHODESTitle REGULATORY TECHNICIANSignature (Electronic Submission)Date 10/04/2017

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

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
SANTA FE DISTRICT
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

RECEIVED
NOV 07 2017

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42166	² Pool Code 98220	³ Pool Name Purple Sage Wolfcamp
⁴ Property Code 40444	⁵ Property Name HORNSBY 35 FEDERAL COM	⁶ Well Number 4H
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3260.1'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
3	35	26S	27E		290	SOUTH	2110	WEST	EDDY

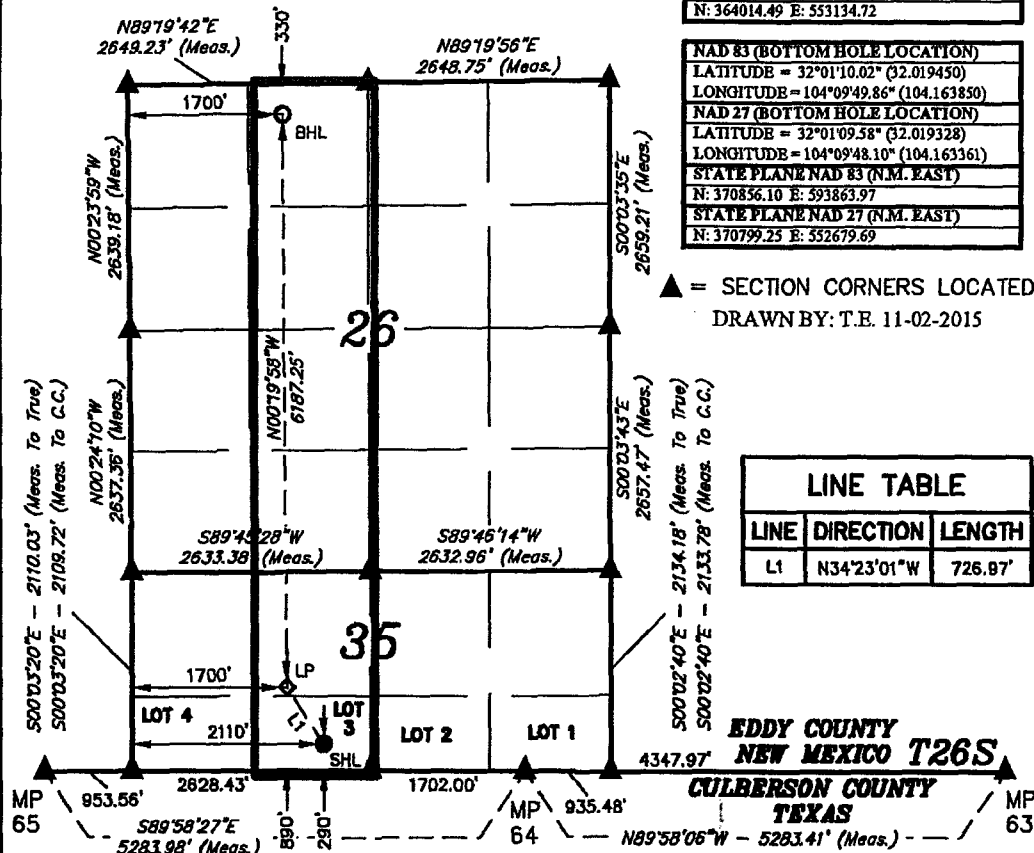
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
C	26	26S	27E		330	NORTH	1708	WEST	EDDY
¹² Dedicated Acres 224.04	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ NOTE:

Distances referenced on plat to section lines are perpendicular.



▲ = SECTION CORNERS LOCATED.
DRAWN BY: T.E. 11-02-2015

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N34°23'01"W	726.97'

¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kimberleigh Rhodes 10/25/17
Signature Date

Kimberleigh Rhodes

Printed Name

kirhodes@cimarex.com

E-mail Address

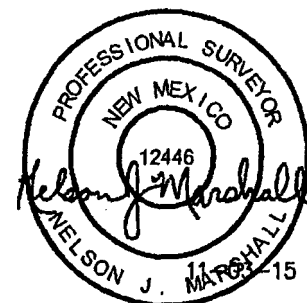
¹⁸ SURVEYOR
CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

October 27, 2015

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

Cimarex Hornsby 35 Federal Com 4H MWD Final Survey Geodetic Report



(Def Survey)

Report Date:	May 08, 2017 - 01:33 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	356.162 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Hornsby 35 Federal Com 4H / Cimarex Hornsby 35 Federal Com 4H	TVD Reference Datum:	KB
Well:	Cimarex Hornsby 35 Federal Com 4H	TVD Reference Elevation:	3284.100 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3260.100 ft above MSL
UWM / API#:	Unknown / Unknown	Magnetic Declination:	7.342 °
Survey Name:	Cimarex Hornsby 35 Federal Com 4H MWD Final	Total Gravity Field Strength:	998.4258mgn (9.80665 Based)
Survey Date:	April 05, 2017	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	247.869 ° / 7377.863 ft / 6.534 / 0.950	Total Magnetic Field Strength:	48001.299 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.709 °
Location Lat / Long:	N 32° 0' 2.86799", W 104° 9' 44.70074"	Declination Date:	April 05, 2017
Location Grid N/E Y/X:	N 364071.210 ftUS, E 594319.140 ftUS	Magnetic Declination Model:	HDGM 2016
CRS Grid Convergence Angle:	0.0906 °	North Reference:	Grid North
Grid Scale Factor:	0.99991231	Grid Convergence Used:	0.0906 °
Version / Patch:	2.10.254.0	Total Corr Mag North->Grid North:	7.2515 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL [290' FSL, 2110' FWL]	0.00	0.00	288.50	0.00	0.00	0.00	0.00	N/A	364071.21	594319.14	N 32 0 2.87 W 104 9 44.70	
	112.00	1.72	137.42	111.98	-1.31	-1.24	1.14	1.54	364069.97	594320.28	N 32 0 2.86 W 104 9 44.69	
	163.00	2.03	128.70	162.96	-2.52	-2.37	2.36	0.82	364068.84	594321.50	N 32 0 2.84 W 104 9 44.67	
	227.00	2.30	132.31	226.91	-4.21	-3.94	4.19	0.47	364067.27	594323.33	N 32 0 2.83 W 104 9 44.65	
	258.00	2.30	132.31	257.89	-5.11	-4.78	5.11	0.00	364066.43	594324.25	N 32 0 2.82 W 104 9 44.64	
	288.00	2.52	135.84	287.86	-6.05	-5.66	6.02	0.88	364065.56	594325.16	N 32 0 2.81 W 104 9 44.63	
	318.00	2.61	138.04	317.83	-7.09	-6.64	6.94	0.44	364064.57	594326.07	N 32 0 2.80 W 104 9 44.62	
	334.00	2.70	137.42	333.81	-7.67	-7.18	7.43	0.59	364064.03	594326.57	N 32 0 2.80 W 104 9 44.61	
	472.00	2.83	130.50	471.65	-12.58	-11.79	12.22	0.26	364059.42	594331.36	N 32 0 2.75 W 104 9 44.56	
	561.00	1.50	125.39	560.59	-14.85	-13.89	14.84	1.51	364057.32	594333.98	N 32 0 2.73 W 104 9 44.53	
	652.00	0.62	297.08	651.58	-15.35	-14.36	15.38	2.32	364056.85	594334.52	N 32 0 2.73 W 104 9 44.52	
	743.00	2.03	299.59	742.55	-14.21	-13.34	13.54	1.55	364057.87	594332.68	N 32 0 2.74 W 104 9 44.54	
	834.00	1.90	293.77	833.50	-12.63	-11.93	10.75	0.26	364059.28	594329.89	N 32 0 2.75 W 104 9 44.58	
	939.00	1.90	289.76	938.44	-11.12	-10.64	7.52	0.13	364060.57	594326.66	N 32 0 2.76 W 104 9 44.61	
	1028.00	2.12	287.47	1027.39	-9.93	-9.65	4.56	0.26	364061.56	594323.70	N 32 0 2.77 W 104 9 44.65	
	1123.00	2.43	293.77	1122.31	-8.36	-8.31	1.05	0.42	364062.90	594320.19	N 32 0 2.79 W 104 9 44.69	
	1219.00	2.52	284.04	1218.22	-6.77	-6.98	-2.86	0.45	364064.23	594316.28	N 32 0 2.80 W 104 9 44.73	
	1314.00	2.21	283.45	1313.14	-5.59	-6.05	-6.67	0.33	364065.16	594312.47	N 32 0 2.81 W 104 9 44.78	
	1408.00	2.61	284.15	1407.06	-4.39	-5.10	-10.51	0.43	364066.11	594308.63	N 32 0 2.82 W 104 9 44.82	
	1502.00	2.70	276.81	1500.96	-3.32	-4.32	-14.78	0.37	364066.90	594304.36	N 32 0 2.83 W 104 9 44.87	
	1596.00	2.61	272.62	1594.86	-2.67	-3.95	-19.12	0.23	364067.26	594300.02	N 32 0 2.83 W 104 9 44.92	
	1690.00	1.72	270.51	1688.79	-2.32	-3.84	-22.67	0.95	364067.37	594296.47	N 32 0 2.83 W 104 9 44.96	
	1783.00	1.41	258.78	1781.75	-2.36	-4.05	-25.19	0.48	364067.16	594293.96	N 32 0 2.83 W 104 9 44.99	
	1881.00	1.02	245.04	1879.73	-2.83	-4.66	-27.16	0.49	364066.55	594291.98	N 32 0 2.82 W 104 9 45.02	
	1974.00	0.49	223.66	1972.72	-3.40	-5.29	-28.19	0.64	364065.92	594289.96	N 32 0 2.82 W 104 9 45.03	
	2068.00	0.71	145.66	2066.72	-4.17	-6.07	-28.13	0.82	364065.14	594291.01	N 32 0 2.81 W 104 9 45.03	
	2263.00	1.10	143.86	2261.69	-6.79	-8.58	-26.35	0.20	364062.64	594287.79	N 32 0 2.78 W 104 9 45.01	
	2357.00	0.90	140.33	2355.68	-8.15	-9.87	-25.35	0.22	364061.34	594283.80	N 32 0 2.77 W 104 9 45.00	
	2452.00	1.19	144.34	2450.66	-9.60	-11.25	-24.29	0.31	364059.96	594284.85	N 32 0 2.76 W 104 9 44.98	
	2546.00	1.10	188.28	2544.65	-11.31	-12.93	-23.85	0.92	364058.28	594285.29	N 32 0 2.74 W 104 9 44.98	
	2641.00	1.81	212.34	2639.62	-13.41	-15.10	-24.79	0.97	364056.11	594284.35	N 32 0 2.72 W 104 9 44.99	
	2735.00	3.00	222.69	2733.53	-16.30	-18.17	-27.25	1.34	364053.05	594281.89	N 32 0 2.69 W 104 9 45.02	
	2830.00	4.02	230.49	2828.35	-19.95	-22.11	-31.51	1.18	364049.10	594287.64	N 32 0 2.65 W 104 9 45.07	
	2924.00	4.42	246.36	2922.10	-23.10	-25.66	-37.37	1.31	364045.55	594281.78	N 32 0 2.61 W 104 9 45.14	
	3015.00	5.04	256.58	3012.79	-24.96	-28.00	-44.47	1.15	364043.22	594274.68	N 32 0 2.59 W 104 9 45.22	
	3108.00	4.64	254.07	3105.46	-26.42	-29.98	-52.06	0.49	364041.24	594267.09	N 32 0 2.57 W 104 9 45.31	
	3204.00	4.24	258.78	3201.17	-27.69	-31.73	-59.27	0.56	364039.48	594259.87	N 32 0 2.55 W 104 9 45.39	
	3298.00	4.24	255.57	3294.92	-28.78	-33.27	-66.05	0.25	364037.94	594253.10	N 32 0 2.54 W 104 9 45.47	
	3393.00	4.64	254.07	3389.63	-30.23	-35.20	-73.14	0.44	364036.01	594246.00	N 32 0 2.52 W 104 9 45.55	
	3487.00	4.95	256.67	3483.30	-31.69	-37.18	-80.74	0.40	364034.03	594238.40	N 32 0 2.50 W 104 9 45.64	
	3582.00	4.82	258.08	3577.96	-32.93	-38.95	-88.64	0.19	364032.26	594230.51	N 32 0 2.48 W 104 9 45.73	
	3678.00	4.73	252.44	3673.62	-34.44	-40.98	-96.36	0.50	364030.23	594222.79	N 32 0 2.46 W 104 9 45.82	
	3771.00	4.82	254.55	3766.30	-36.13	-43.18	-103.78	0.21	364028.04	594215.37	N 32 0 2.44 W 104 9 45.91	
	3865.00	4.82	249.53	3859.97	-38.06	-45.61	-111.29	0.45	364025.60	594207.86	N 32 0 2.42 W 104 9 45.99	
	3960.00	5.13	251.65	3954.61	-40.27	-48.34	-119.06	0.38	364022.87	594200.09	N 32 0 2.39 W 104 9 46.08	
	4054.00	5.44	250.63	4048.21	-42.51	-51.14	-127.25	0.34	364020.07	594191.90	N 32 0 2.36 W 104 9 46.18	
	4149.00	5.35	250.37	4142.79	-44.92	-54.12	-135.67	0.10	364017.09	594183.48	N 32 0 2.33 W 104 9 46.28	
	4243.00	5.21	251.65	4236.39	-47.18	-56.94	-143.85	0.19	364014.27	594175.31	N 32 0 2.31 W 104 9 46.37	
	4337.00	5.44	246.62	4329.99	-49.74	-60.05	-151.99	0.55	364011.16	594167.17	N 32 0 2.28 W 104 9 46.47	
	4431.00	5.44	244.42	4423.56	-52.89	-63.74	-160.10	0.22	364007.47	594159.06	N 32 0 2.24 W 104 9 46.56	
	4526.00	5.23	253.85	4518.15	-55.48	-66.89	-168.32	0.95	364004.32	594150.84	N 32 0 2.21 W 104 9 46.66	
	4620.00	4.95	250.15	4611.78	-57.51	-69.46	-176.25	0.46	364001.75	594142.91	N 32 0 2.18 W 104 9 46.75	
	4714.00	4.73	248.87	4705.45	-59.78	-72.24	-183.68	0.26	363998.98	594135.48	N 32 0 2.16 W 104 9 46.83	
	4809.00	4.64	259.49	4800.13	-61.39	-74.35	-191.11	0.92	363996.87	594128.05	N 32 0 2.14 W 104 9 46.92	
	4902.00	4.24	256.89	4892.85	-62.38	-75.82	-198.16	0.48	363995.40	594121.00	N 32 0 2.12 W 104 9 47.00	
	4997.00	4.11	257.46	4987.60	-63.46	-77.35	-204.90	0.14	363993.87	594114.26	N 32 0 2.11 W 104 9 47.08	
	5091.00	4.82	250.06	5081.32	-65.07	-79.43	-211.90	0.97	363991.79	594107.26	N 32 0 2.09 W 104 9 47.16	
	5185.00	4.42	246.23	5175.01	-67.40	-82.24	-218.93	0.54	363988.98	594100.23	N 32 0 2.06 W 104 9 47.24	
	5278.00	4.73	252.17	5267.71	-69.55	-84.85	-225.86	0.61	363986.36	594093.30	N 32 0 2.03 W 104 9 47.33	
	5374.00	4.51	249.44	5363.40	-71.59	-87.39	-233.16	0.32	363983.83	594086.00	N 32 0 2.01 W 104 9 47.41	
	5470.00	5.52	249.53	5459.03	-74.00	-90.33	-241.02	1.05	363980.89	594078.14	N 32 0 1.98 W 104 9 47.50	
	5564.00	5.74	249.75	5552.58	-76.82	-93.54	-249.66	0.24	363977.68	594069.50	N 32 0 1.95 W 104 9 47.60	
	5658.00	5.13	246.23	5646.16	-79.38	-96.86	-257.92	0.74	363974.36	594061.24	N 32 0 1.91 W 104 9 47.70	
	5754.00	4.42	246.45	5741.82	-82.09	-100.07	-265.24	0.74	363971.15	594053.92	N 32 0 1.88 W 104 9 47.78	
	5846.00	4.82	247.15	5833.52	-84.55	-102.99	-272.05	0.44	363968.23	594047.11	N 32 0 1.85 W 104 9 47.86	
	5941.00	4.42	242.61	5928.22	-87.31	-106.22	-278.98	0.57	363965.00	594040.18	N 32 0 1.82 W 104 9 47.94	
	6034.00	4.64	241.25	6020.93	-90.33	-109.68	-285.46	0.26	363961.54	594033.71	N 32 0 1.79 W 104 9 48.02	
	6129.00	3.40	239.53	6115.69	-93.21	-112.96	-291.26	1.31	363958.26	594027.91	N 32 0 1.75 W 104 9 48.08	
	6223.00	3.31	240.72	6209.53	-95.62	-115.70	-296.03	0.12	363955.52	594023.14	N 32 0 1.73 W 104 9 48.14	
	6319.00	3.00	250.94	6305.38	-97.47	-117.87	-300.82	0.67	363953.35	594018.35	N 32 0 1.71 W 104 9 48.20	
	6413.00	2.30	244.42	6399.28	-98.82	-119.49	-304.84	0.81	363951.73	594014.32	N 32 0 1.69 W 104 9 48.24	
	6507.00	2.21	235.69	6493.21	-100.43	-121.33	-308.04	0.38	363949.90	594011.12	N 32 0 1.67 W 104 9 48.28	
	6601.00	3.00	224.59	6587.11	-102.99	-124.10	-311.27	0.99	363947.12	594007.90	N 32 0 1.64 W 104 9 48.32	
	6695.00	3.40	217.58	6680.97	-106.71	-128.06	-314.69	0.59	363943.16	594004.47	N 32 0 1.61 W 104 9 48.36	
	6790.00	2.70	206.74	6775.83	-110.75	-132.29	-317.42	0.95	363938.93	594001.75	N 32 0 1.56 W 104 9 48.39	
	6884.00	2.21	200.40	6869.75	-114.31	-135.97	-319.05	0.60	363935.26	594000.12	N 32 0 1.53 W 104 9 48.41	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6978.00	2.43	213.75	6963.67	-117.54	-139.32	-320.79	0.62	363931.90	593998.38	N 32 0 1.49 W 104	9 48.43
	7074.00	3.71	222.78	7059.53	-121.28	-143.29	-324.03	1.42	363927.93	593995.14	N 32 0 1.46 W 104	9 48.47
	7170.00	4.64	239.84	7155.28	-125.14	-147.53	-329.49	1.61	363923.70	593989.68	N 32 0 1.41 W 104	9 48.53
	7199.00	4.51	236.87	7184.19	-126.22	-148.74	-331.46	0.93	363922.49	593987.71	N 32 0 1.40 W 104	9 48.55
	7262.00	3.95	256.82	7247.02	-127.78	-150.59	-335.65	2.48	363920.64	593983.52	N 32 0 1.38 W 104	9 48.60
	7294.00	5.56	302.31	7278.92	-127.05	-150.01	-338.03	12.38	363921.21	593981.14	N 32 0 1.39 W 104	9 48.63
	7325.00	9.31	321.54	7309.66	-124.09	-147.24	-340.86	14.36	363923.98	593978.31	N 32 0 1.42 W 104	9 48.66
	7357.00	13.69	326.41	7341.01	-118.67	-142.06	-344.57	14.01	363929.17	593974.60	N 32 0 1.47 W 104	9 48.70
	7388.00	17.44	331.12	7370.87	-111.28	-134.93	-348.85	12.76	363936.29	593970.33	N 32 0 1.54 W 104	9 48.75
	7420.00	20.69	334.33	7401.11	-101.68	-125.63	-353.61	10.67	363945.59	593965.56	N 32 0 1.63 W 104	9 48.81
	7451.00	23.37	338.61	7429.84	-90.73	-114.97	-358.23	10.07	363956.25	593960.94	N 32 0 1.74 W 104	9 48.86
	7482.00	26.75	342.31	7457.92	-78.09	-102.60	-362.59	12.01	363968.62	593956.58	N 32 0 1.86 W 104	9 48.91
	7514.00	29.78	346.25	7486.11	-63.27	-88.01	-366.67	11.12	363983.21	593952.50	N 32 0 2.00 W 104	9 48.96
	7545.00	31.74	348.50	7512.74	-47.60	-72.54	-370.13	7.33	363998.68	593949.05	N 32 0 2.16 W 104	9 49.00
	7577.00	34.21	348.77	7539.59	-30.34	-55.47	-373.56	7.73	364015.75	593945.62	N 32 0 2.32 W 104	9 49.04
	7608.00	38.66	349.51	7564.52	-12.07	-37.39	-377.02	14.42	364033.83	593942.16	N 32 0 2.50 W 104	9 49.08
	7640.00	42.52	349.51	7588.82	8.61	-16.92	-380.81	12.06	364054.29	593938.37	N 32 0 2.71 W 104	9 49.12
	7671.00	45.66	349.27	7611.08	30.02	4.28	-384.78	10.14	364075.49	593934.39	N 32 0 2.92 W 104	9 49.17
	7703.00	49.08	349.01	7632.75	53.39	27.40	-389.22	10.70	364098.80	593929.96	N 32 0 3.15 W 104	9 49.22
First Taken Point	7720.00	50.86	349.68	7643.68	66.31	40.19	-391.62	10.87	364111.39	593927.55	N 32 0 3.27 W 104	9 49.25
	7734.00	52.32	350.21	7652.38	77.22	50.99	-393.54	10.87	364122.19	593925.64	N 32 0 3.38 W 104	9 49.27
	7766.00	55.42	351.61	7671.25	102.95	76.51	-397.61	10.31	364147.71	593921.56	N 32 0 3.63 W 104	9 49.32
	7797.00	59.03	355.20	7688.03	128.97	102.39	-400.59	15.18	364173.59	593918.59	N 32 0 3.89 W 104	9 49.35
	7829.00	62.71	357.54	7703.61	156.92	130.28	-402.35	13.15	364201.48	593916.83	N 32 0 4.16 W 104	9 49.37
	7860.00	65.43	359.24	7717.16	184.77	158.14	-403.13	10.06	364229.34	593916.05	N 32 0 4.44 W 104	9 49.38
	7892.00	69.27	359.78	7729.48	214.25	187.67	-403.38	12.10	364258.86	593915.80	N 32 0 4.73 W 104	9 49.38
	7923.00	73.27	0.47	7739.44	243.53	217.02	-403.31	13.07	364288.21	593915.87	N 32 0 5.02 W 104	9 49.38
	7955.00	77.19	0.87	7747.59	274.37	247.96	-402.95	12.31	364319.14	593916.23	N 32 0 5.33 W 104	9 49.38
	8049.00	88.14	1.49	7759.58	367.10	341.02	-401.02	11.67	364412.20	593918.15	N 32 0 6.25 W 104	9 49.35
	8073.00	88.62	1.99	7760.25	390.98	365.00	-400.30	2.89	364436.18	593918.88	N 32 0 6.49 W 104	9 49.34
	8168.00	89.28	1.77	7761.99	485.49	459.94	-397.18	0.73	364531.11	593922.00	N 32 0 7.43 W 104	9 49.30
	8261.00	88.83	1.65	7763.53	578.04	552.88	-394.41	0.50	364624.04	593924.77	N 32 0 8.35 W 104	9 49.27
	8356.00	93.68	359.37	7761.45	672.71	647.82	-393.56	5.64	364718.97	593925.62	N 32 0 9.28 W 104	9 49.26
	8450.00	90.83	356.53	7757.75	766.57	741.67	-396.92	4.28	364812.81	593922.26	N 32 0 10.21 W 104	9 49.30
	8545.00	90.17	355.27	7756.92	861.57	836.42	-403.71	1.50	364907.55	593915.46	N 32 0 11.15 W 104	9 49.37
	8639.00	90.27	356.54	7756.56	955.56	930.18	-410.42	1.36	365001.30	593908.75	N 32 0 12.08 W 104	9 49.45
	8734.00	90.31	358.91	7756.08	1050.52	1025.09	-414.20	2.50	365096.21	593904.98	N 32 0 13.02 W 104	9 49.49
	8829.00	90.17	359.48	7755.68	1145.39	1120.08	-415.53	0.62	365191.19	593903.65	N 32 0 13.96 W 104	9 49.51
	8923.00	90.31	359.16	7755.29	1239.24	1214.08	-416.85	0.37	365285.18	593902.53	N 32 0 14.89 W 104	9 49.52
	9018.00	90.17	359.60	7754.89	1334.09	1309.07	-417.67	0.49	365380.16	593901.50	N 32 0 15.83 W 104	9 49.53
	9112.00	90.34	359.45	7754.47	1427.93	1403.06	-418.45	0.24	365474.15	593900.72	N 32 0 16.76 W 104	9 49.53
	9207.00	90.03	359.16	7754.16	1522.78	1498.06	-419.61	0.45	365569.13	593899.57	N 32 0 17.70 W 104	9 49.55
	9301.00	90.07	358.87	7754.08	1616.67	1592.04	-421.22	0.31	365663.11	593897.96	N 32 0 18.63 W 104	9 49.56
	9395.00	90.24	0.05	7753.83	1710.51	1686.04	-422.11	1.27	365757.10	593897.07	N 32 0 19.56 W 104	9 49.57
	9490.00	90.00	0.39	7753.63	1805.27	1781.04	-421.74	0.44	365852.09	593897.44	N 32 0 20.50 W 104	9 49.57
	9584.00	90.14	0.44	7753.51	1899.01	1875.03	-421.06	0.16	365946.08	593898.12	N 32 0 21.43 W 104	9 49.56
	9678.00	90.21	2.08	7753.23	1992.64	1969.01	-419.99	1.75	366040.04	593900.18	N 32 0 22.36 W 104	9 49.58
	9772.00	89.93	3.48	7753.11	2086.01	2062.69	-414.44	1.52	366133.92	593904.74	N 32 0 23.29 W 104	9 49.48
	9867.00	90.21	1.07	7753.00	2180.46	2157.81	-410.66	2.55	366228.83	593908.51	N 32 0 24.23 W 104	9 49.43
	9961.00	90.45	357.64	7752.45	2274.30	2251.79	-411.72	3.66	366322.80	593907.45	N 32 0 25.16 W 104	9 49.44
	10056.00	90.10	358.37	7752.00	2369.25	2346.73	-415.03	0.85	366417.73	593904.15	N 32 0 26.10 W 104	9 49.48
	10150.00	90.14	0.01	7751.80	2463.11	2440.72	-416.36	1.75	366511.71	593902.82	N 32 0 27.03 W 104	9 49.49
	10245.00	90.00	0.09	7751.68	2557.89	2535.72	-416.28	0.17	366606.70	593902.90	N 32 0 27.97 W 104	9 49.49
	10339.00	90.31	357.98	7751.43	2651.77	2629.70	-417.86	2.27	366700.67	593901.32	N 32 0 28.90 W 104	9 49.51
	10434.00	90.14	356.93	7751.06	2746.74	2724.60	-422.08	1.12	366795.57	593897.10	N 32 0 29.84 W 104	9 49.55
	10528.00	90.34	356.14	7750.66	2840.74	2818.43	-427.76	0.87	366889.39	593891.42	N 32 0 30.76 W 104	9 49.62
	10622.00	90.28	357.16	7750.15	2934.73	2912.27	-433.25	1.09	366983.21	593885.93	N 32 0 31.69 W 104	9 49.68
	10717.00	90.45	359.31	7749.55	3029.66	3007.21	-436.18	2.27	367078.15	593883.00	N 32 0 32.63 W 104	9 49.71
	10811.00	90.72	0.20	7748.59	3123.47	3101.21	-436.58	0.99	367172.14	593882.60	N 32 0 33.56 W 104	9 49.71
	10905.00	90.45	0.13	7747.65	3217.24	3195.20	-436.31	0.30	367266.12	593882.87	N 32 0 34.49 W 104	9 49.71
	10999.00	90.62	0.79	7746.75	3310.97	3289.19	-435.55	0.73	367360.11	593883.63	N 32 0 35.42 W 104	9 49.70
	11094.00	91.41	1.14	7745.07	3405.62	3384.16	-433.95	0.91	367455.07	593885.23	N 32 0 36.36 W 104	9 49.68
	11188.00	91.20	0.66	7742.93	3499.29	3478.13	-432.48	0.56	367549.03	593886.70	N 32 0 37.29 W 104	9 49.66
	11282.00	90.93	1.11	7741.18	3592.94	3572.10	-431.03	0.56	367642.99	593888.15	N 32 0 38.22 W 104	9 49.64
	11376.00	91.51	2.01	7739.18	3686.50	3666.04	-428.47	1.14	367738.92	593890.71	N 32 0 39.15 W 104	9 49.61
	11471.00	91.69	2.17	7736.53	3780.96	3760.94	-425.00	0.25	367831.82	593894.17	N 32 0 40.09 W 104	9 49.57
	11566.00	92.27	1.05	7733.25	3875.47	3855.85	-422.34	1.33	367926.71	593896.84	N 32 0 41.03 W 104	9 49.53
	11660.00	91.79	0.41	7729.92	3969.11	3949.78	-421.14	0.85	368020.63	593898.04	N 32 0 41.96 W 104	9 49.52
	11755.00	91.79	359.42	7728.95	4063.86	4044.73	-421.28	1.04	368115.58	593897.90	N 32 0 42.90 W 104	9 49.52
	11849.00	92.78	358.76	7723.20	4157.66	4138.64	-422.77	1.27	368209.48	593896.41	N 32 0 43.83 W 104	9 49.53
	11944.00	92.82	358.05	7718.56	4252.47	4233.49	-425.41	0.75	368304.32	593893.76	N 32 0 44.77 W 104	9 49.56
	12038.00	92.68	357.53	7714.05	4346.33	4327.31	-429.03	0.57	368398.14	593890.14	N 32 0 45.70 W 104	9 49.60
	12133.00	92.92	357.23	7709.41	4441.19	4422.10	-433.37	0.40	368492.91	593885.81	N 32 0 46.63 W 104	9 49.65
	12227.00	92.41	356.87	7705.04	4535.08	4515.87	-438.20	0.66	368586.68	593880.98	N 32 0 47.56 W 104	9 49.71
	12322.00	92.00	357.43	7701.38	4629.99	4610.59	-442.92	0.73	368681.48	593876.26	N 32 0 48.50 W 104	9 49.76
	12416.00	91.24	357.05	7698.73	4723.94	4704.54	-447.45	0.90	368775.33	593871.73	N 32 0 49.43 W 104	9 49.81
	12511.00	89.83	356.70	7697.84	4818.92	4799.39	-452.63	1.53	368870.17	593866.55	N 32 0 50.37 W 104	9 49.87
	12606.00	87.87	357.51	7699.74	4913.89	4894.24	-457.42	2.23				

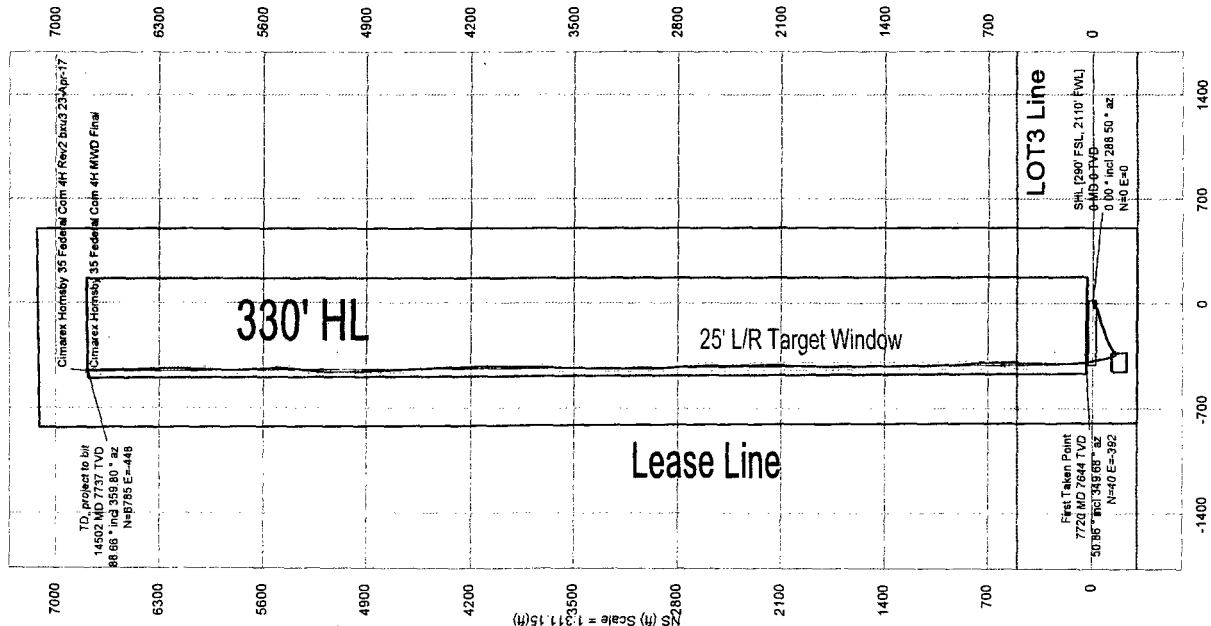
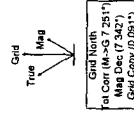
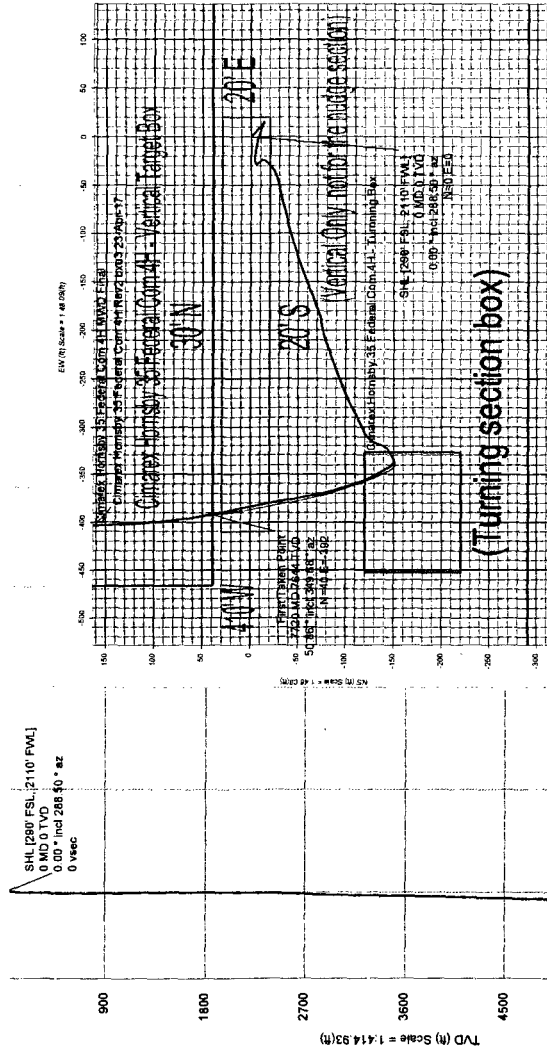
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Survey Program:												
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey				
	1	0.000	24.000	1/98.425	30.000	30.000	NAL_MWD_PLUS_0.5_DEG- Depth Only	Original Borehole / Cimarex Hornsby 35 Federal Com 4H MWD Final				
	1	24.000	24.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG- Depth Only	Original Borehole / Cimarex Hornsby 35 Federal Com 4H MWD Final				
	1	24.000	14502.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Cimarex Hornsby 35 Federal Com 4H MWD				

CONTROLLED	
Project	Project Number
Drawn by	Drawn Date
Checked by	Checked Date
Approved by	Approved Date

Borehole:		Well:		Field:		Structure:	
Original Borehole		Cimarex Hornsby 35 Federal Com 4H		NM Eddy County (NAD 83)		Cimarex Hornsby 35 Federal Com 4H	
Geographic & Magnetic Parameters		Surface Location		Magnetic Data		Well Data	
Name:	H0508 2016	Lat:	N 33 0 13"	Grid Zone:	18QDP	Well ID:	72016
Depth:	7' 342"	Long:	W 104 4 43 W	Grid Zone:	18QDP	Well ID:	72016
Depth:	7' 342"	Grid Zone:	18QDP	Grid Zone:	18QDP	Well ID:	72016

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [290° FSL, 2110° FWL]	0.00	0.00	288.50	0.00	0.00	0.00	0.00	0.00
First Taken Point	7720.00	50.86	349.88	7843.68	66.31	40.19	-391.62	10.87
TD, project to bit	14502.00	88.66	359.80	7736.84	6800.15	6785.39	-447.84	0.00



Vertical Section (ft) Azim = 356.162° Scale = 1:414.93 (ft) Origin = 0N/S, 0E/W

EW (ft) Scale = 1:311.15 (ft)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 202 S Cheyenne Ave., Ste 1000 Tulsa, OK 74103		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW - 7-21-17
⁴ API Number 30 - 015-42166	⁵ Pool Name Purple Sage Wolfcamp	⁶ Pool Code 98220
⁷ Property Code 40444	⁸ Property Name Hornsby 35 Fed Com	⁹ Well Number 4H

II. ¹⁰ Surface Location

Ul or lot no. 3	Section 35	Township 26S	Range 27E	Lot Idn	Feet from the 290	North/South Line SOUTH	Feet from the 2110	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. C	Section 26	Township 26S	Range 27E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 1708	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 7-29-17	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco Inc. R & M PO Box 2039; Tulsa OK	
226737	DCP Midstream 370 17 th St, Ste 2500; Denver CO	

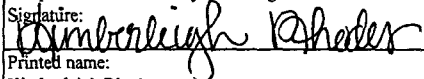
IV. Well Completion Data

²¹ Spud Date 4-12-17	²² Ready Date 7-21-17	²³ TD 5-6-17	²⁴ PBDT 14465	²⁵ Perforations 7853' - 14313'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	410	515 - TOC 0'		
12.25	9.625	2195	900 - TOC 0'		
8.5	5.5	14502	2650 - TOC 0'		
	2.375	7236			

V. Well Test Data

³¹ Date New Oil 7-28-17	³² Gas Delivery Date 7-29-17	³³ Test Date 8-7-17	³⁴ Test Length 24	³⁵ Tbg. Pressure 520	³⁶ Csg. Pressure 0
³⁷ Choke Size 40/64	³⁸ Oil 308	³⁹ Water 1746	⁴⁰ Gas 951 Sunoco Inc. R & M		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 
Printed name:
Kimberleigh Rhodes
Title:
Regulatory Technician
E-mail Address:
kirhodes@cimarex.com
Date:
09/28/2017
Phone:
918-560-7081

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: