

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM198591a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM1359422. Name of Operator
COG OPERATING LLC

Contact: STORMI DAVIS

8. Lease Name and Well No.
MONET FEDERAL COM 9H3. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701-42873a. Phone No. (include area code)
Ph: 575.748.69469. API Well No.
30-025-42766-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Sec 4 T25S R33E Mer NMP
Lot 4 190FNL 1020FWL

At top prod interval reported below

Sec 4 T25S R33E Mer NMP
At total depth SWSW 340FSL 1007FWL10. Field and Pool, or Exploratory
RED HILLS-UPPER BONE SPRING11. Sec., T., R., M., or Block and Survey
or Area Sec 4 T25S R33E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
02/06/201615. Date T.D. Reached
02/21/201616. Date Completed
☐ D & A ☒ Ready to Prod.
06/01/201617. Elevations (DF, KB, RT, GL)*
3463 GL18. Total Depth: MD
TVD13855
939419. Plug Back T.D.: MD
TVD13755
939420. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
NONE22. 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	54.5	0	1220		850		0	
12.250	9.625 J-55	40.0	0	5017		1200		0	
8.750	5.500 P-110	17.0	0	13794		2150		5225	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8899	8883						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	9522	13725	9522 TO 13735	0.000	1008	OPEN - Bone Spring
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5250 TO 13735	SQZ 9 5/8" X 5 1/2" ANNULUS W/830 SX CLASS C
9522 TO 13735	SEE ATTACHED

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
06/01/2016	06/09/2016	24	→	740.0	898.0	1125.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
28/64	1050		→	740	898	1125	1214	POW	

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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

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

ELECTRONIC SUBMISSION #342695 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

RECLAMATION DUE:
DEC 01 2016DAVID R. GLASS
PETROLEUM ENGINEERAUG 29 2016
RECEIVEDACCEPTED FOR RECORD
/S/ DAVID R. GLASS
AUG 24 2016

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.)
SOLD

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
RUSTLER	1145	1387		RUSTLER	1145
DELAWARE	5032	5072		TOP OF SALT	1387
BELL CANYON	5073	6038		BASE OF SALT	4791
CHERRY CANYON	6039	7496		DELAWARE	5032
BRUSHY CANYON	7497	9090		BELL CANYON	5073
BONE SPRING LIME	9091	9394		CHERRY CANYON	6039
				BRUSHY CANYON	7497
				BONE SPRING LIME	9091

32. Additional remarks (include plugging procedure):
Surveys & perms/stimulation are attached.

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 #342695 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Hobbs

Committed to AFMSS for processing by DEBORAH HAM on 07/18/2016 (16DMH0166SE)

Name (please print) STORMI DAVIS

Title REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 06/21/2016

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 ****

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Monet Federal Com #9H

30-025-42766

Sec 4-T25S-R33E

	<u>Perfs</u>		<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
13735	13679	13629	4020	297098	301380
13578	13527	13477	3024	296443	279384
13426	13375	13327	2814	296561	279258
13270	13223	13172	3024	302541	278460
13122	13071	13020	2982	300723	277704
12970	12919	12868	3024	297713	277116
12821	12765	12716	3024	298536	275226
12665	12615	12564	3024	300174	276906
12513	12463	12412	3024	303872	280770
12361	12305	12259	3024	300754	273630
12209	12158	12108	3024	302512	273882
12057	12006	11956	3024	302689	276864
11905	11855	11800	3066	301186	275016
11753	11702	11651	3024	300689	273672
11601	11550	11499	3066	299509	271950
11449	11398	11349	2604	300730	271992
11293	11246	11195	2982	299152	272706
11144	11094	11043	3024	299384	270102
10992	10942	10891	3024	301692	271572
10841	10785	10739	3024	301452	272202
10688	10637	10587	3108	300401	273420
10536	10485	10437	3024	303019	272244
10381	10333	10282	3024	301381	275982
10232	10181	10130	3024	300523	270816
10080	10029	9982	3024	301213	267792
9926	9877	9826	3024	300508	274218
9775	9725	9674	3066	300133	270438
9623	9573	9522	3108	302420	272790
	Totals		85248	8413008	7707492

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

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Well Name and Num: Monet Federal Com # 9H
Location: Sec 4, T25S, R33E
Operator: COG
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.30	455	1.80	5874	90.30	12476		
0.30	829	2.00	6234	89.50	13612		
0.60	1145	1.40	6632	89.10	13805		
0.30	1525	1.50	7013				
0.40	1873	1.80	7364				
0.60	2189	1.10	7745				
0.90	2537	1.10	7935				
1.40	3011	1.40	8412				
1.50	3392	0.90	8827				
1.00	3676	37.70	9203				
1.80	4056	79.20	9554				
2.40	4278	1.50	9902				
2.30	4720	87.70	10380				
2.80	4978	89.70	10668				
2.50	5427	91.30	11050				
2.30	5588	88.70	11432				
2.50	5427	91.50	11717				
2.30	5588	89.30	12192				

By: Mario A. Bana

Subscribed and sworn to before me this 29th day of February, 2016

Tina Flemens
Notary Public, Lea County, New Mexico





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February 18, 2016

Concho Resources, Inc.
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

Attn: Kanicia Castillo

RE: Monet Federal Com No 009H

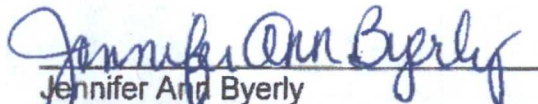
Please find enclosed a copy of the survey from 0' to 7400' ran on the above referenced well.

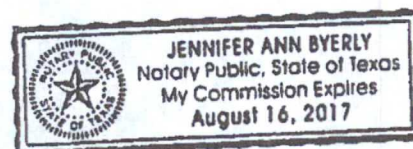
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 18th day of February, A.D., 2016, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Concho
Lease/Well: Monet Federal Com No/009H

Rig Name: McVay 7
State/County: New Mexico/Lea
VS-Azi: 179.90 Degrees
Latitude: 31.16622, Longitude: -103.58200
Grid North = True North -0.39 degs (NAD 27)
Grid Correction Applied = -0.39 degs



Depth Reference : RKB = 17 feet

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 2/18/2016 / 13:45

VES Survey International
Midland, Texas
432-563-5444

Surveyor: Adam Askew
Monet Federal Com No 009H / API 30-025-42766

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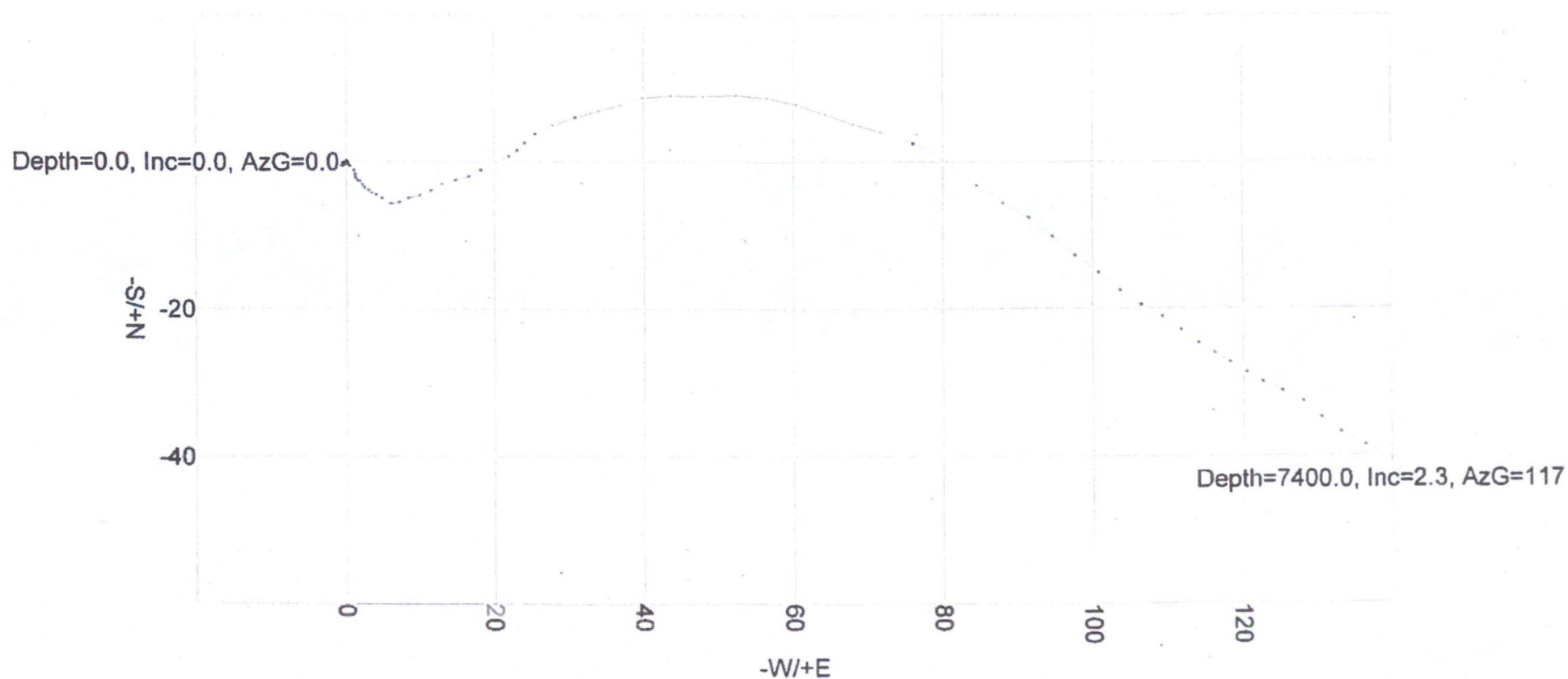
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
100.00	0.19	158.90	100.00	-0.15	0.06	0.15	0.16	158.90	0.19
200.00	0.30	273.94	200.00	-0.29	-0.14	0.29	0.32	205.89	0.41
300.00	0.15	322.21	300.00	-0.16	-0.48	0.16	0.51	251.05	0.22
400.00	0.14	86.67	400.00	-0.05	-0.43	0.05	0.44	263.23	0.26
500.00	0.18	203.77	500.00	-0.19	-0.37	0.19	0.42	243.26	0.28
600.00	0.11	122.34	600.00	-0.38	-0.35	0.38	0.52	222.83	0.20
700.00	0.23	249.33	700.00	-0.51	-0.46	0.50	0.69	222.58	0.31
800.00	0.36	294.43	800.00	-0.45	-0.94	0.45	1.04	244.47	0.25
900.00	0.36	286.59	899.99	-0.23	-1.52	0.23	1.54	261.38	0.05
1000.00	0.18	56.84	999.99	-0.06	-1.69	0.06	1.70	268.03	0.49
1100.00	0.48	110.15	1099.99	-0.12	-1.17	0.12	1.18	264.24	0.40
1200.00	0.44	84.33	1199.99	-0.22	-0.40	0.22	0.46	240.86	0.21
1300.00	0.62	123.79	1299.99	-0.49	0.43	0.49	0.65	138.77	0.39
1400.00	0.42	154.80	1399.98	-1.11	1.03	1.12	1.52	137.30	0.34
1500.00	0.23	160.05	1499.98	-1.63	1.25	1.63	2.06	142.50	0.19
1600.00	0.31	184.58	1599.98	-2.09	1.30	2.09	2.46	148.13	0.14

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1700.00	0.26	111.19	1699.98	-2.44	1.48	2.44	2.85	148.68	0.34
1800.00	0.29	116.07	1799.98	-2.63	1.92	2.63	3.25	143.80	0.04
1900.00	0.36	170.16	1899.98	-3.05	2.21	3.05	3.76	144.07	0.31
2000.00	0.34	117.72	1999.97	-3.50	2.52	3.50	4.31	144.16	0.31
2100.00	0.34	127.82	2099.97	-3.82	3.02	3.82	4.87	141.62	0.06
2200.00	0.34	130.55	2199.97	-4.19	3.48	4.19	5.44	140.29	0.02
2300.00	0.36	93.87	2299.97	-4.40	4.02	4.41	5.96	137.61	0.22
2400.00	0.78	128.96	2399.96	-4.85	4.86	4.86	6.87	134.93	0.53
2500.00	0.79	120.18	2499.95	-5.62	5.98	5.63	8.21	133.22	0.12
2600.00	0.89	49.98	2599.95	-5.47	7.17	5.48	9.02	127.35	0.96
2700.00	0.81	84.80	2699.94	-4.91	8.46	4.92	9.78	120.12	0.51
2800.00	0.99	68.28	2799.92	-4.53	9.97	4.54	10.95	114.43	0.31
2900.00	0.93	63.12	2899.91	-3.84	11.48	3.86	12.11	108.50	0.11
3000.00	0.98	53.47	2999.90	-2.97	12.89	2.99	13.23	102.97	0.17
3100.00	1.32	89.97	3099.88	-2.46	14.73	2.48	14.94	99.48	0.79
3200.00	1.04	57.44	3199.86	-1.97	16.65	2.00	16.77	96.75	0.71
3300.00	1.15	64.59	3299.84	-1.05	18.32	1.08	18.35	93.29	0.18
3400.00	1.37	65.68	3399.81	-0.13	20.32	0.16	20.32	90.36	0.22
3500.00	0.84	56.36	3499.80	0.77	22.02	-0.73	22.03	87.99	0.56
3600.00	0.77	48.03	3599.79	1.82	23.13	-1.58	23.19	85.98	0.14
3700.00	0.88	43.76	3699.77	2.63	24.16	-2.58	24.30	83.80	0.13
3800.00	1.25	52.82	3799.76	3.84	25.56	-3.79	25.84	81.46	0.41
3900.00	1.70	70.69	3899.72	4.99	27.83	-4.94	28.27	79.83	0.64
4000.00	1.98	69.31	3999.67	6.09	30.84	-6.04	31.44	78.83	0.28
4100.00	1.73	81.66	4099.62	6.92	33.95	-6.86	34.66	78.48	0.46
4200.00	1.73	67.87	4199.58	7.71	36.85	-7.65	37.64	78.18	0.41
4300.00	2.00	74.18	4299.52	8.76	39.92	-8.69	40.87	77.63	0.35
4400.00	2.37	95.87	4399.46	9.02	43.66	-8.95	44.59	78.32	0.90
4500.00	2.60	87.50	4499.36	8.91	47.99	-8.83	48.81	79.48	0.43
4600.00	2.47	87.65	4599.26	9.10	52.41	-9.01	53.19	80.15	0.14
4700.00	2.26	102.57	4699.18	8.76	56.49	-8.66	57.16	81.19	0.65
4800.00	2.36	103.46	4799.09	7.85	60.42	-7.74	60.92	82.60	0.10
4900.00	2.40	114.35	4899.01	6.51	64.32	-6.39	64.65	84.22	0.45
5000.00	2.11	103.22	4998.93	5.22	68.02	-5.11	68.22	85.61	0.52
5100.00	2.28	109.31	5098.86	4.14	71.69	-4.02	71.81	86.69	0.29
5200.00	3.09	110.51	5198.75	2.54	76.09	-2.41	76.13	88.09	0.81
5300.00	2.99	127.89	5298.61	0.00	80.67	0.15	80.67	90.00	0.92
5400.00	2.76	129.92	5398.48	-3.15	84.58	3.30	84.64	92.13	0.25
5500.00	2.17	117.88	5498.39	-5.58	88.10	5.74	88.28	93.63	0.78

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5600.00	2.37	120.75	5598.31	-7.53	91.55	7.69	91.86	94.70	0.23
5700.00	2.35	138.12	5698.23	-10.11	94.70	10.27	95.24	96.09	0.71
5800.00	2.25	124.10	5798.15	-12.73	97.69	12.90	98.51	97.43	0.57
5900.00	2.29	128.98	5898.07	-15.09	100.86	15.28	101.99	98.51	0.20
6000.00	2.08	131.76	5998.00	-17.55	103.77	17.73	105.24	99.60	0.23
6100.00	1.89	115.13	6097.94	-19.46	106.61	19.64	108.37	100.34	0.60
6200.00	1.78	124.68	6197.89	-21.04	109.38	21.23	111.39	100.89	0.32
6300.00	1.75	127.50	6297.84	-22.86	111.88	23.05	114.19	101.55	0.09
6400.00	1.57	127.35	6397.80	-24.62	114.18	24.82	116.80	102.17	0.18
6500.00	1.28	118.60	6497.77	-25.98	116.24	26.18	119.11	102.60	0.36
6600.00	1.48	123.42	6597.74	-27.23	118.30	27.43	121.39	102.96	0.23
6700.00	1.48	121.95	6697.71	-28.62	120.47	28.83	123.82	103.36	0.04
6800.00	1.45	119.48	6797.67	-29.93	122.67	30.14	126.27	103.71	0.07
6900.00	1.79	110.35	6897.63	-31.09	125.24	31.31	129.04	103.94	0.42
7000.00	1.83	123.08	6997.58	-32.51	128.04	32.73	132.10	104.25	0.40
7100.00	1.94	140.36	7097.53	-34.69	130.46	34.91	134.99	104.89	0.58
7200.00	2.02	115.67	7197.47	-36.76	133.13	36.99	138.11	105.44	0.85
7300.00	2.30	120.24	7297.40	-38.53	136.46	38.77	141.79	105.77	0.32
7400.00	2.32	117.73	7397.32	-40.49	139.98	40.73	145.72	106.13	0.10



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Monet Federal Com No 009H / API 30-025-42766



VES Survey Date: 2/14/2016



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I Adam Askew certify that I am employed by VES Survey International. That I did on the day(s) of 02/14/16 through 02/14/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 7,400.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Concho for the Monet Federal Com Well # 9H API # 30-025-42766 in Lea County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Vaughn Energy Services

A handwritten signature in blue ink, appearing to read "Adam Askew", is written over a horizontal line.

Adam Askew
Service Technician
Vaughn Energy Services



COG Operating, LLC

**Lea County, NM
Sec 4, T25S, R33E
Monet Federal #9H**

Wellbore #1

Survey: MWD

DDC Survey Report

07 March, 2016

HOBBS OCD

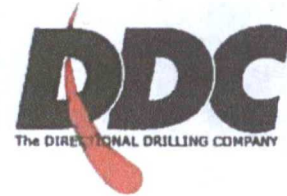
AUG 29 2016

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The Directional Drilling Company

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
COG Operating, LLC	WT-160053	3/7/2016

Lease	Well Name	County & State
N/A	Monet Federal #9H	Lea, NM

API No.	Survey Depth Range	Survey Type
30-025-42766	7400 feet to 13855 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
N/A	Daniel Longoria

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by The Directional Drilling Company (DDC). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

A large, stylized handwritten signature in black ink, which appears to read "Christopher Hughes".

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=DDC, ou,
email=Chrish@directionaldrillers.com, c=US
Date: 2016.03.08 08:02:03 -06'00'

Christopher Hughes
MWD Compliance Manager
The Directional Drilling Company

Company: COG Operating, LLC
Project: Lea County, NM
Site: Sec 4, T25S, R33E
Well: Monet Federal #9H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Monet Federal #9H
TVD Reference: well @ 3480.0usft (McVay #7)
MD Reference: well @ 3480.0usft (McVay #7)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

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

Site	Sec 4, T25S, R33E		
Site Position:		Northing:	424,999.76 usft
From:	Lat/Long	Easting:	731,880.25 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 58.389 N
		Longitude:	103° 35' 2.308 W
		Grid Convergence:	0.40 °

Well	Monet Federal #9H		
Well Position:	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 0' 58.396 N
		Longitude:	103° 34' 55.211 W
		Ground Level:	3,463.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	2/10/2016	(°)
			7.10
			Dip Angle
			(°)
			60.03
			Field Strength
			(nT)
			48,041

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.90

Survey Program	Date 2/21/2016		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	7,400.0	GYRO (Wellbore #1)	Good_gyro
7,554.0	13,855.0	MWD (Wellbore #1)	MWD default
			Description
			Good Gyro
			MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
Tie In @ 7400' MD / 7397' TVD									
7,400.0	2.32	117.73	7,397.3	-40.5	140.0	40.7	0.00	0.00	0.00
7,554.0	2.50	118.80	7,551.2	-43.6	145.7	43.8	0.12	0.12	0.69
7,650.0	1.90	125.20	7,647.1	-45.5	148.8	45.7	0.67	-0.63	6.67
7,745.0	1.10	163.50	7,742.1	-47.3	150.4	47.5	1.31	-0.84	40.32
7,840.0	1.20	159.60	7,837.1	-49.1	151.0	49.3	0.13	0.11	-4.11
7,935.0	1.10	196.20	7,932.0	-50.9	151.1	51.1	0.77	-0.11	38.53
8,031.0	1.10	173.70	8,028.0	-52.7	150.9	52.9	0.45	0.00	-23.44
8,126.0	1.40	205.70	8,123.0	-54.6	150.5	54.9	0.79	0.32	33.68
8,221.0	1.40	203.90	8,218.0	-56.7	149.6	57.0	0.05	0.00	-1.89

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,317.0	1.40	197.30	8,313.9	-58.9	148.7	59.2	0.17	0.00	-6.88
8,412.0	1.40	194.80	8,408.9	-61.2	148.1	61.4	0.08	0.00	-2.63
8,508.0	1.40	179.70	8,504.9	-63.5	147.8	63.7	0.38	0.00	-15.73
8,604.0	0.50	228.50	8,600.9	-64.9	147.5	65.2	1.18	-0.94	50.83
8,699.0	0.50	221.10	8,695.9	-65.5	146.9	65.8	0.07	0.00	-7.79
8,795.0	0.30	108.20	8,791.9	-65.9	146.9	66.1	0.71	-0.21	-119.69
8,827.0	0.90	159.30	8,823.9	-66.1	147.0	66.4	2.37	1.88	165.94
8,855.0	2.50	173.90	8,851.9	-67.0	147.2	67.2	5.87	5.71	52.14
8,886.0	4.90	183.50	8,882.8	-69.0	147.2	69.2	7.97	7.74	30.97
8,918.0	8.40	187.10	8,914.6	-72.6	146.8	72.9	11.01	10.94	11.25
8,950.0	11.70	190.90	8,946.1	-78.1	145.9	78.4	10.51	10.31	11.88
8,982.0	14.80	193.70	8,977.2	-85.3	144.3	85.6	9.89	9.69	8.75
9,014.0	18.40	193.90	9,007.9	-94.2	142.1	94.4	11.25	11.25	0.63
9,046.0	21.80	193.80	9,037.9	-104.9	139.5	105.1	10.63	10.63	-0.94
9,078.0	25.10	194.10	9,067.3	-117.2	136.5	117.5	10.33	10.31	1.56
9,110.0	28.10	195.30	9,095.9	-131.1	132.8	131.3	9.52	9.38	3.75
9,142.0	30.90	195.50	9,123.7	-146.3	128.6	146.5	8.76	8.75	0.63
9,172.0	34.30	195.70	9,149.0	-161.8	124.3	162.1	11.34	11.33	0.67
9,203.0	37.70	197.60	9,174.1	-179.3	119.1	179.5	11.54	10.97	6.13
9,235.0	40.50	199.00	9,198.9	-196.4	112.7	198.6	9.17	8.75	4.38
9,267.0	42.90	200.20	9,222.8	-218.5	105.6	218.7	7.90	7.50	3.75
9,299.0	45.20	199.90	9,245.8	-239.4	98.0	239.6	7.22	7.19	-0.94
9,331.0	48.00	197.90	9,267.8	-261.4	90.4	261.5	9.86	8.75	-6.25
9,363.0	51.80	196.50	9,288.4	-284.8	83.2	284.9	12.34	11.88	-4.38
9,395.0	58.00	196.40	9,307.3	-309.6	75.9	309.7	13.13	13.13	-0.31
9,427.0	61.20	195.70	9,323.9	-335.8	68.3	335.9	16.38	16.25	-2.19
9,459.0	65.80	193.70	9,336.2	-363.5	61.1	363.6	15.42	14.38	-6.25
9,490.0	70.40	192.00	9,349.8	-391.5	54.7	391.6	15.69	14.84	-5.48
9,522.0	74.80	190.00	9,359.3	-421.5	48.9	421.6	14.99	13.75	-6.25
9,554.0	79.20	187.90	9,366.5	-452.3	44.0	452.4	15.16	13.75	-6.56
9,585.0	83.80	187.10	9,371.1	-482.7	40.0	482.7	15.06	14.64	-2.58
9,615.0	86.70	186.00	9,373.6	-512.4	36.6	512.4	10.33	9.67	-3.67
9,646.0	88.70	184.80	9,374.6	-543.2	33.7	543.3	7.52	6.45	-3.87
9,678.0	89.00	184.40	9,375.5	-575.1	31.1	575.2	1.56	0.94	-1.25
9,774.0	90.90	182.70	9,375.6	-670.9	25.2	670.9	2.66	1.98	-1.77
9,806.0	91.20	182.80	9,375.0	-702.9	23.7	702.9	0.99	0.94	0.31
9,902.0	91.50	181.40	9,372.7	-798.8	20.2	798.8	1.49	0.31	-1.46
9,998.0	93.10	180.00	9,368.9	-894.7	19.0	894.7	2.21	1.67	-1.46
10,093.0	91.60	179.30	9,365.0	-989.6	19.6	989.6	1.74	-1.58	-0.74
10,189.0	88.20	179.70	9,365.1	-1,085.6	20.4	1,085.6	3.57	-3.54	0.42
10,285.0	87.00	178.80	9,369.1	-1,181.5	21.7	1,181.5	1.56	-1.25	-0.94
10,380.0	87.70	179.70	9,373.5	-1,278.4	22.9	1,278.4	1.20	0.74	0.95
10,476.0	88.40	180.40	9,376.8	-1,372.3	22.8	1,372.4	1.03	0.73	0.73



DDC
Survey Report



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Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,400.0	7,397.3	-40.5	140.0	Tie In @ 7400' MD / 7397' TVD
13,855.0	9,393.7	-4,750.1	23.7	TD @ 13855' MD / 9393' TVD

Checked By: _____ Approved By: _____ Date: _____