

Phone: (505) 393-6161 Fax: (505) 393-0720

Energy, Minerals & Natural Resources Department

Revised August 1, 2011

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Artesia, N.M. 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35842	² Pool Code 98080	³ Pool Name NAGEEZI UNIT; MANCOS
⁴ Property Code 315244	⁵ Property Name NAGEEZI UNIT	⁶ Well Number 406H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6766.7'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
K	3	23N	9W		2000'	SOUTH	1725'	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
I	10	23N	9W		2449'	SOUTH	339'	EAST	SAN JUAN

¹² Dedicated Acres
PENETRATED SPACING UNIT;
S/2 SEC. 3 (320 ACRES).
ALL SEC. 10 (640 ACRES) = 960 ACRES TOTAL

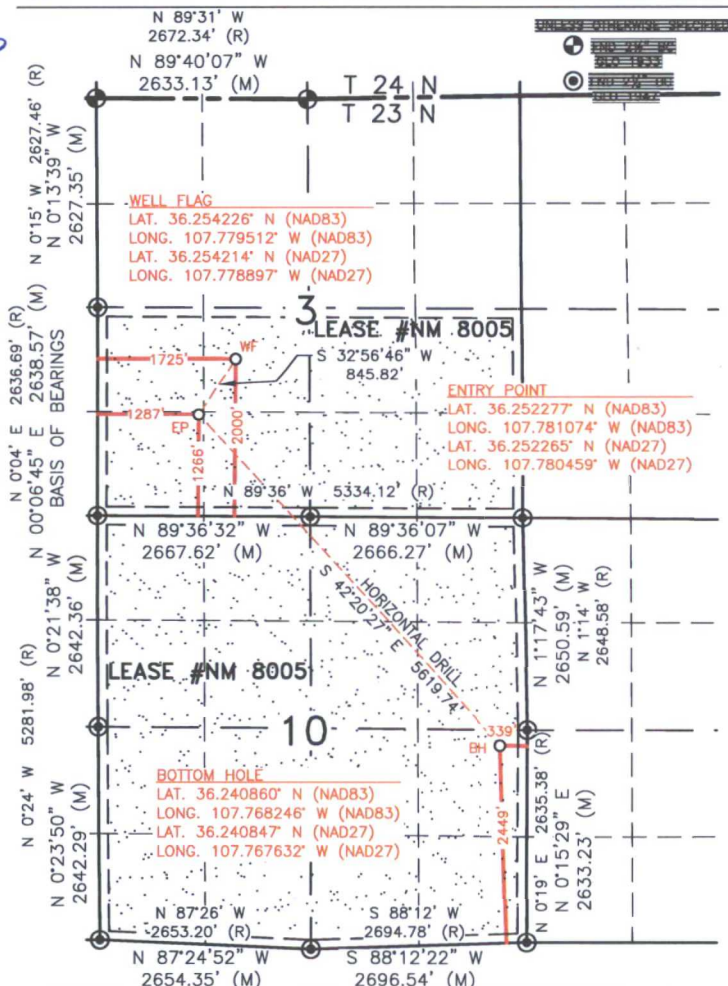
¹³ Joint or Infill

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



E/4 CORNER SEC 4

LAT. 36.256011° N (NAD83)
LONG. 107.785359° W (NAD83)
LAT. 36.255998° N (NAD27)
LONG. 107.784745° W (NAD27)

SE CORNER SEC 4

LAT. 36.248765° N (NAD83)
LONG. 107.785377° W (NAD83)
LAT. 36.248753° N (NAD27)
LONG. 107.784762° W (NAD27)

W/4 CORNER SEC 10

LAT. 36.241510° N (NAD83)
LONG. 107.785320° W (NAD83)
LAT. 36.241497° N (NAD27)
LONG. 107.784705° W (NAD27)

SW CORNER SEC 10

LAT. 36.234254° N (NAD83)
LONG. 107.785258° W (NAD83)
LAT. 36.234241° N (NAD27)
LONG. 107.784643° W (NAD27)

S/4 CORNER SEC 10

LAT. 36.233925° N (NAD83)
LONG. 107.776270° W (NAD83)
LAT. 36.233913° N (NAD27)
LONG. 107.775656° W (NAD27)

SE CORNER SEC 10

LAT. 36.234156° N (NAD83)
LONG. 107.767135° W (NAD83)
LAT. 36.234144° N (NAD27)
LONG. 107.766521° W (NAD27)

E/4 CORNER SEC 10

LAT. 36.241387° N (NAD83)
LONG. 107.767093° W (NAD83)
LAT. 36.241374° N (NAD27)
LONG. 107.766479° W (NAD27)

SE CORNER SEC 3

LAT. 36.248664° N (NAD83)
LONG. 107.767295° W (NAD83)
LAT. 36.248651° N (NAD27)
LONG. 107.766681° W (NAD27)

S/4 CORNER SEC 3

LAT. 36.248715° N (NAD83)
LONG. 107.776333° W (NAD83)
LAT. 36.248703° N (NAD27)
LONG. 107.775719° W (NAD27)

N/4 CORNER SEC 11

LAT. 36.248604° N (NAD83)
LONG. 107.758235° W (NAD83)
LAT. 36.248592° N (NAD27)
LONG. 107.757621° W (NAD27)

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.

Signature _____ Date 8/30/17

Printed Name **Jevin Croteau**

E-mail Address **jevin.croteau@encana.com**

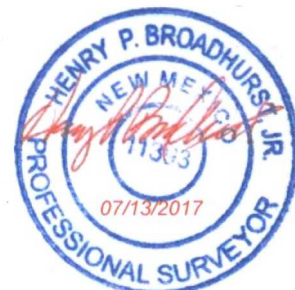
SURVEYOR CERTIFICATION

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.

JULY 13, 2017

Date of Survey

Signature and Seal of Professional Surveyor:



DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
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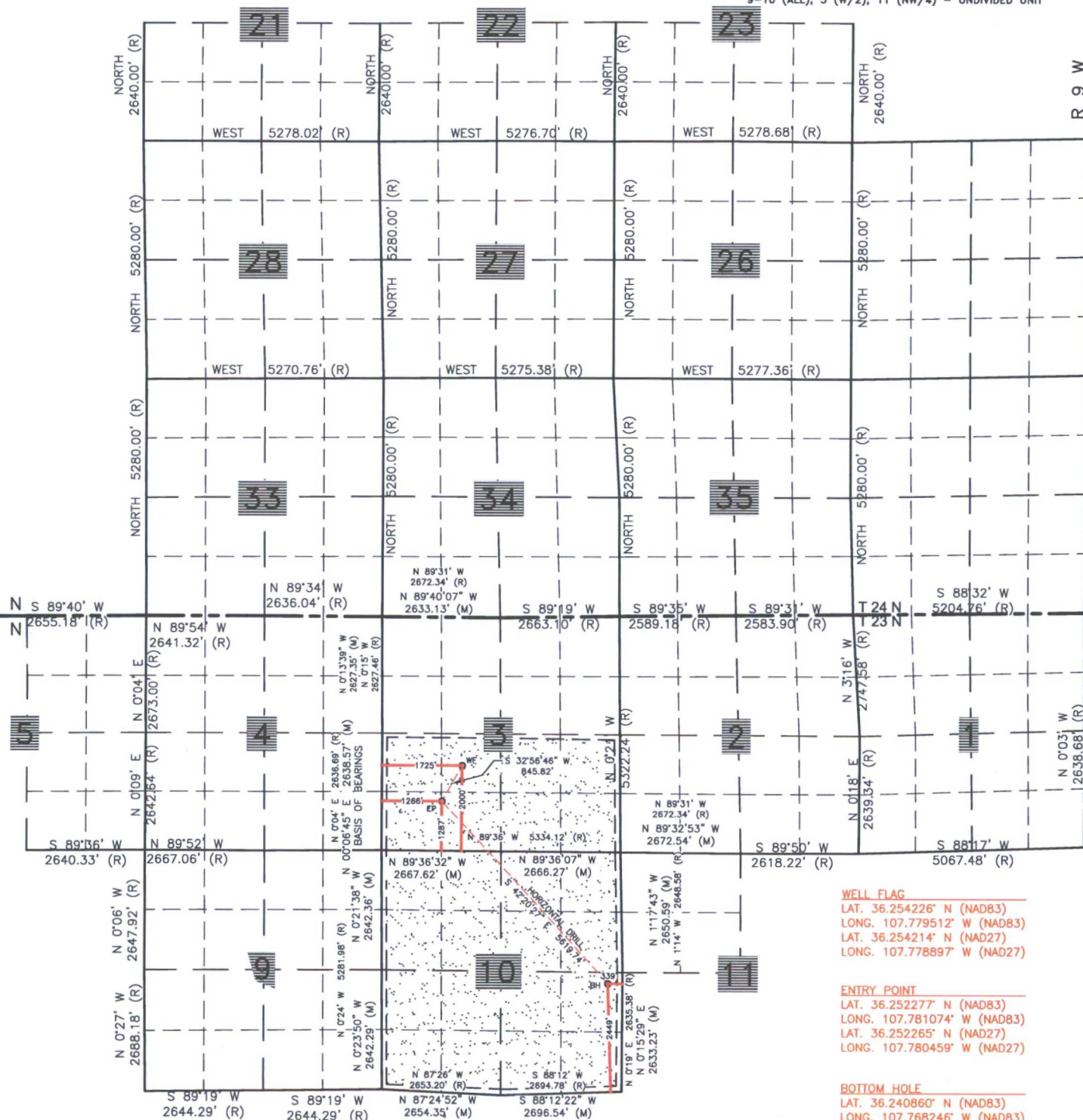
☐ AMENDED REPORT

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ENCANA OIL & GAS (USA) INC.
NAGEEZI UNIT #406H

PENETRATED SPACING UNIT; SW/2 SEC. 3 (320 ACRES),
ALL SEC. 10 (640 ACRES) = 640 ACRES TOTAL

TOTAL 10,415.12 ACRES: SEC. 21-23 (S/2); 25-28, 33-36, 1-4,
9-10 (ALL); 5 (W/2); 11 (NW/4) - UNDIVIDED UNIT





OIL CONS. DIV DIST. 3
AUG 31 2017

Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 406H
Wellbore: OH
Design: FINAL

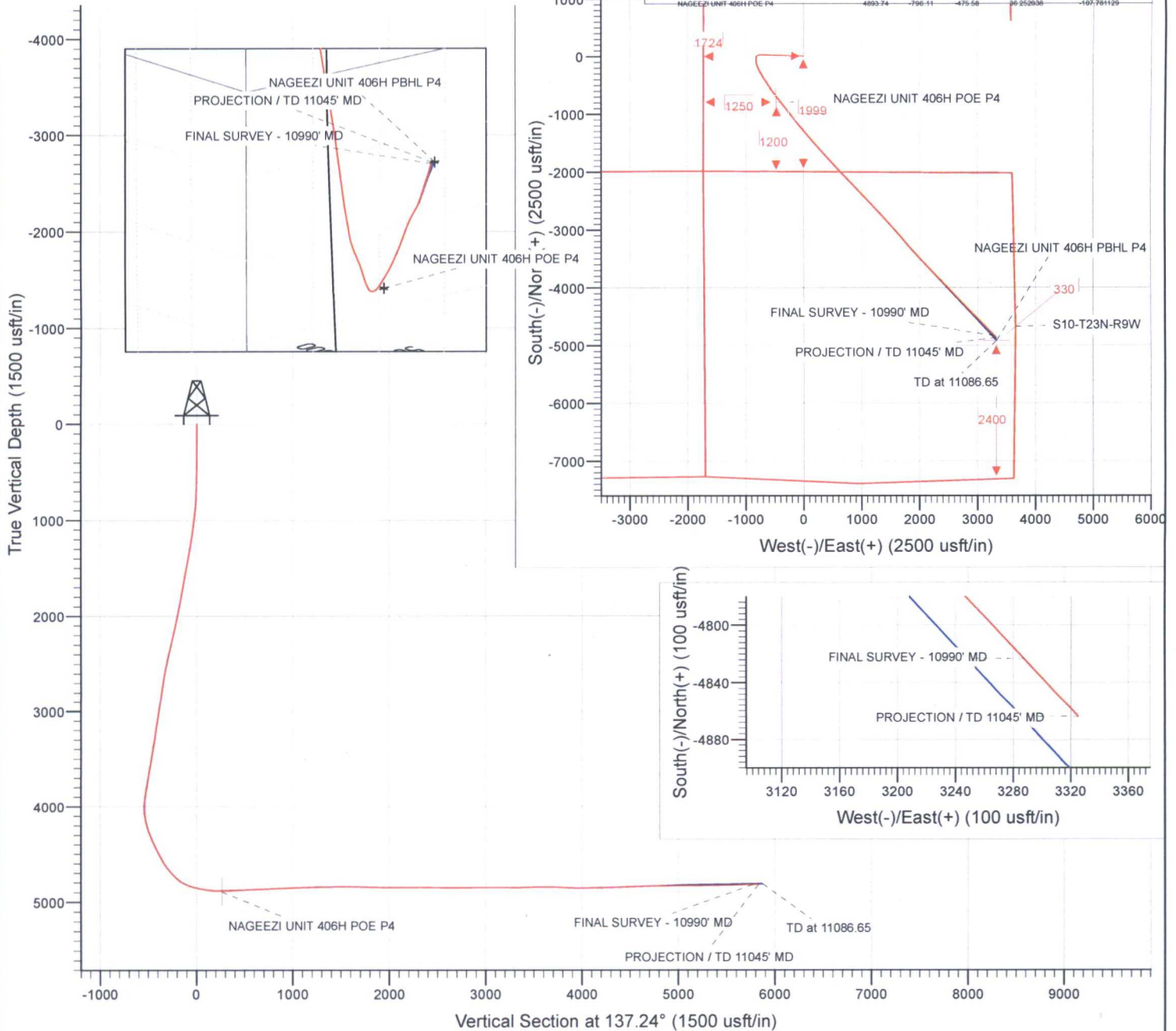


Azimuths to True North
Magnetic North: 9.03°

Magnetic Field
Strength: 49691.0snT
Dip Angle: 62.87°
Date: 6/15/2017
Model: HDGM

PNRL
NAGEEZI UNIT 406H
274837 175096 LR
14' KB @ 6762.00ft (AZTEC 920)
Ground Level @ 6768.00
North American Datum 1983
Well NAGEEZI UNIT 406H, True North

Name	Type	User	Target	No Target (Freshhand)	Azimuth	Origin	Type	N/S	E/W	From TVD	Latitude	Longitude
NAGEEZI UNIT 406H PBHL P6					137.24			0.00	0.00			
NAGEEZI UNIT 406H PBHL P5					4777.78	-4914.11	3332.21	36	2407.25		-107.768216	
NAGEEZI UNIT 406H PBHL P8					4807.27	-4914.11	3332.21	36	2407.25		-107.768216	
NAGEEZI UNIT 406H PBHL P4					4812.28	-4914.11	3332.21	36	2407.25		-107.768216	
NAGEEZI UNIT 406H PBHL P7					4827.27	-4914.11	3332.21	36	2407.25		-107.768216	
NAGEEZI UNIT 406H PBHL					4839.38	-4914.11	3332.21	36	2407.25		-107.768216	
NAGEEZI UNIT 406H POE					4852.01	-4914.11	3332.21	36	2407.25		-107.768216	
NAGEEZI UNIT 406H POE					4868.00	-796.11	-475.58	36	2520.36		-107.781129	
NAGEEZI UNIT 406H POE P4					4893.74	-796.11	-475.58	36	2520.36		-107.781129	



WELL DETAILS: NAGEEZI UNIT 406H

+N/-S 0.00 +E/-W 0.00 Northing 1911840.92 Ground Level: 6768.00 Easting 2738958.91 Latitude 36.254225 Longitude -107.779516



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NAGEEZI UNIT 406H
Project:	San Juan County, NM	TVD Reference:	14' KB @ 6782.00usft (AZTEC 920)
Site:	S3-T23N-R9W	MD Reference:	14' KB @ 6782.00usft (AZTEC 920)
Well:	NAGEEZI UNIT 406H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	San Juan County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	S3-T23N-R9W		
Site Position:		Northing:	1,911,826.36 usft
From:	Lat/Long	Easting:	2,738,972.48 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	36.254185
		Longitude:	-107.779470
		Grid Convergence:	0.03 °

Well	NAGEEZI UNIT 406H		
Well Position	+N/-S	0.00 usft	Northing: 1,911,840.92 usft
	+E/-W	0.00 usft	Easting: 2,738,958.91 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.254225
		Longitude:	-107.779516
		Ground Level:	6,768.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	6/15/2017	9.03
			Dip Angle (°)
			62.87
			Field Strength (nT)
			49,691.00000000

Design	FINAL		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
		Direction	(°)
			137.24

Survey Program	Date 7/11/2017		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
376.00	11,045.00	Survey #1 (OH)	MWD+HDGM
			Description
			OWSG MWD + HDGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Formations /
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Comments
(usft)			(usft)			(usft)	(°/100usf	(°/100u	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
376.00	0.09	347.33	376.00	0.29	-0.06	-0.26	0.02	0.02	
437.00	0.26	266.30	437.00	0.33	-0.21	-0.38	0.43	0.28	
498.00	0.66	258.30	498.00	0.25	-0.70	-0.65	0.66	0.66	
560.00	1.49	287.30	559.99	0.41	-1.81	-1.54	1.56	1.34	
622.00	2.07	274.38	621.96	0.74	-3.70	-3.05	1.13	0.94	
683.00	2.81	276.05	682.90	0.98	-6.29	-4.99	1.22	1.21	
744.00	3.47	275.26	743.81	1.31	-9.61	-7.49	1.08	1.08	
805.00	4.40	275.09	804.66	1.68	-13.78	-10.59	1.52	1.52	
865.00	5.63	282.38	864.43	2.52	-18.95	-14.71	2.30	2.05	
925.00	6.28	281.41	924.11	3.80	-25.04	-19.79	1.10	1.08	
987.00	7.52	280.71	985.66	5.22	-32.35	-25.80	2.00	2.00	
1,048.00	9.10	279.13	1,046.02	6.73	-41.04	-32.80	2.62	2.59	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 406H
Wellbore: OH
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 406H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,109.00	10.59	276.49	1,106.12	8.13	-51.37	-40.84	2.55	2.44	
1,170.00	12.74	271.48	1,165.86	8.94	-63.66	-49.78	3.89	3.52	
1,231.00	13.62	268.93	1,225.25	8.98	-77.57	-59.25	1.73	1.44	
1,292.00	14.02	268.67	1,284.48	8.67	-92.14	-68.92	0.66	0.66	
1,415.00	15.60	268.23	1,403.39	7.82	-123.56	-89.63	1.29	1.28	
1,538.00	15.69	268.32	1,521.84	6.82	-156.72	-111.41	0.08	0.07	
1,659.00	14.11	270.34	1,638.76	6.42	-187.82	-132.24	1.37	-1.31	
1,781.00	14.72	270.87	1,756.92	6.75	-218.19	-153.09	0.51	0.50	
1,903.00	15.56	272.54	1,874.69	7.71	-250.04	-175.42	0.78	0.69	
2,024.00	16.04	274.12	1,991.12	9.63	-282.93	-199.16	0.53	0.40	
2,146.00	16.39	274.21	2,108.26	12.10	-316.90	-224.04	0.29	0.29	
2,268.00	18.24	272.89	2,224.73	14.33	-353.14	-250.28	1.55	1.52	
2,390.00	18.24	273.15	2,340.60	16.34	-391.27	-277.65	0.07	0.00	
2,514.00	17.05	274.38	2,458.76	18.80	-428.78	-304.91	1.01	-0.96	
2,635.00	15.03	270.95	2,575.05	20.41	-462.16	-328.76	1.84	-1.67	
2,756.00	13.80	271.22	2,692.24	20.98	-492.27	-349.62	1.02	-1.02	
2,878.00	11.73	268.67	2,811.22	21.00	-519.22	-367.93	1.76	-1.70	
3,001.00	11.95	270.69	2,931.60	20.86	-544.45	-384.96	0.38	0.18	
3,125.00	12.61	274.91	3,052.77	22.18	-570.78	-403.80	0.90	0.53	
3,251.00	12.04	270.60	3,175.86	23.49	-597.62	-422.99	0.86	-0.45	
3,379.00	12.17	269.90	3,301.02	23.61	-624.46	-441.30	0.15	0.10	
3,505.00	13.62	274.12	3,423.84	24.65	-652.54	-461.13	1.37	1.15	
3,632.00	12.74	271.39	3,547.50	26.07	-681.46	-481.80	0.85	-0.69	
3,760.00	14.15	270.69	3,671.98	26.60	-711.21	-502.39	1.11	1.10	
3,886.00	14.63	264.89	3,794.04	25.36	-742.46	-522.70	1.21	0.38	
4,002.00	12.88	262.87	3,906.71	22.45	-769.89	-539.18	1.56	-1.51	
4,065.00	11.65	253.64	3,968.27	19.79	-782.96	-546.10	3.67	-1.95	
4,128.00	12.61	220.15	4,029.94	12.73	-793.51	-548.09	11.12	1.52	
4,191.00	16.70	200.64	4,090.92	-1.01	-801.14	-543.18	10.09	6.49	
4,254.00	20.08	194.14	4,150.70	-19.97	-806.98	-533.22	6.27	5.37	
4,318.00	22.59	187.99	4,210.31	-42.81	-811.37	-519.43	5.25	3.92	
4,381.00	26.10	181.31	4,267.71	-68.66	-813.37	-501.81	7.07	5.57	
4,443.00	27.64	173.22	4,323.04	-96.58	-811.98	-480.37	6.39	2.48	
4,506.00	28.04	166.19	4,378.76	-125.48	-806.72	-455.58	5.25	0.63	
4,569.00	28.30	162.76	4,434.30	-154.13	-798.76	-429.14	2.60	0.41	
4,633.00	26.46	158.98	4,491.13	-181.93	-789.15	-402.20	3.95	-2.87	
4,695.00	28.83	155.38	4,546.06	-208.42	-777.96	-375.16	4.68	3.82	
4,758.00	32.96	155.11	4,600.10	-237.79	-764.42	-344.40	6.56	6.56	
4,821.00	38.28	152.48	4,651.30	-270.66	-748.18	-309.24	8.79	8.44	
4,884.00	42.54	150.98	4,699.26	-306.61	-728.82	-269.70	6.94	6.76	
4,947.00	46.58	149.40	4,744.14	-344.95	-706.83	-226.63	6.65	6.41	
5,010.00	54.36	146.24	4,784.22	-385.99	-680.91	-178.90	12.94	12.35	
5,042.00	59.68	146.59	4,801.63	-408.35	-666.07	-152.41	16.65	16.62	
5,073.00	64.87	146.77	4,816.05	-431.27	-651.00	-125.35	16.75	16.74	
5,105.00	68.77	147.20	4,828.64	-455.93	-634.98	-96.36	12.25	12.19	
5,137.00	71.54	147.82	4,839.50	-481.32	-618.82	-66.75	8.85	8.66	
5,169.00	74.44	147.73	4,848.86	-507.20	-602.50	-36.66	9.07	9.06	
5,201.00	76.86	147.03	4,856.79	-533.31	-585.79	-6.15	7.85	7.56	
5,239.00	79.32	145.89	4,864.63	-564.30	-565.25	30.55	7.11	6.47	
5,303.00	81.74	144.39	4,875.16	-616.09	-529.16	93.07	4.43	3.78	
5,366.00	85.17	143.78	4,882.34	-666.77	-492.46	155.21	5.53	5.44	
5,429.00	89.25	142.19	4,885.41	-717.00	-454.58	217.80	6.95	6.48	
5,492.00	90.75	142.02	4,885.41	-766.72	-415.89	280.57	2.40	2.38	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 406H
Wellbore: OH
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 406H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
5,556.00	92.29	142.11	4,883.71	-817.18	-376.56	344.32	2.41	2.41	
5,619.00	93.47	141.49	4,880.55	-866.62	-337.65	407.04	2.12	1.87	
5,682.00	93.34	141.67	4,876.81	-915.89	-298.57	469.75	0.35	-0.21	
5,746.00	91.63	142.02	4,874.03	-966.17	-259.07	533.48	2.73	-2.67	
5,809.00	91.85	142.19	4,872.12	-1,015.86	-220.39	596.22	0.44	0.35	
5,871.00	92.73	141.93	4,869.64	-1,064.72	-182.30	657.95	1.48	1.42	
5,935.00	91.98	141.67	4,867.01	-1,114.97	-142.76	721.70	1.24	-1.17	
5,998.00	91.80	140.70	4,864.93	-1,164.03	-103.29	784.51	1.57	-0.29	
6,061.00	92.02	140.61	4,862.83	-1,212.73	-63.37	847.37	0.38	0.35	
6,124.00	92.42	140.09	4,860.39	-1,261.20	-23.20	910.23	1.04	0.63	
6,188.00	92.86	140.09	4,857.44	-1,310.24	17.82	974.08	0.69	0.69	
6,250.00	92.29	139.47	4,854.66	-1,357.53	57.81	1,035.95	1.36	-0.92	
6,313.00	92.55	139.73	4,852.00	-1,405.46	98.61	1,098.84	0.58	0.41	
6,376.00	92.81	139.82	4,849.05	-1,453.51	139.25	1,161.71	0.44	0.41	
6,439.00	91.41	139.47	4,846.73	-1,501.49	180.01	1,224.61	2.29	-2.22	
6,502.00	89.65	138.24	4,846.15	-1,548.92	221.46	1,287.58	3.41	-2.79	
6,565.00	89.47	136.83	4,846.63	-1,595.40	263.99	1,350.58	2.26	-0.29	
6,628.00	90.92	137.19	4,846.42	-1,641.48	306.95	1,413.58	2.37	2.30	
6,689.00	91.14	136.75	4,845.32	-1,686.06	348.57	1,474.56	0.81	0.36	
6,751.00	90.22	136.92	4,844.59	-1,731.28	390.98	1,536.56	1.51	-1.48	
6,812.00	90.44	137.89	4,844.24	-1,776.18	432.26	1,597.56	1.63	0.36	
6,873.00	89.12	138.24	4,844.47	-1,821.56	473.03	1,658.55	2.24	-2.16	
6,934.00	88.55	137.62	4,845.71	-1,866.83	513.89	1,719.53	1.38	-0.93	
6,995.00	88.51	137.27	4,847.28	-1,911.75	555.13	1,780.51	0.58	-0.07	
7,056.00	88.99	137.19	4,848.61	-1,956.52	596.54	1,841.50	0.80	0.79	
7,118.00	88.59	137.18	4,849.92	-2,001.99	638.67	1,903.48	0.65	-0.65	
7,179.00	88.81	136.57	4,851.30	-2,046.50	680.36	1,964.46	1.06	0.36	
7,241.00	88.68	136.04	4,852.66	-2,091.32	723.18	2,026.44	0.88	-0.21	
7,302.00	89.34	136.48	4,853.71	-2,135.38	765.35	2,087.42	1.30	1.08	
7,363.00	91.23	136.66	4,853.41	-2,179.68	807.28	2,148.41	3.11	3.10	
7,423.00	91.63	136.31	4,851.91	-2,223.18	848.58	2,208.39	0.89	0.67	
7,483.00	90.66	136.39	4,850.71	-2,266.58	889.99	2,268.37	1.62	-1.62	
7,544.00	89.34	136.31	4,850.71	-2,310.72	932.09	2,329.36	2.17	-2.16	
7,606.00	88.64	136.22	4,851.80	-2,355.51	974.95	2,391.34	1.14	-1.13	
7,667.00	88.99	135.95	4,853.07	-2,399.44	1,017.25	2,452.32	0.72	0.57	
7,728.00	89.65	135.78	4,853.79	-2,443.22	1,059.72	2,513.29	1.12	1.08	
7,789.00	90.13	135.34	4,853.91	-2,486.77	1,102.43	2,574.27	1.07	0.79	
7,850.00	89.69	135.95	4,854.00	-2,530.39	1,145.07	2,635.24	1.23	-0.72	
7,911.00	89.82	136.22	4,854.26	-2,574.33	1,187.38	2,696.23	0.49	0.21	
7,973.00	90.53	136.66	4,854.07	-2,619.26	1,230.11	2,758.22	1.35	1.15	
8,034.00	89.96	137.01	4,853.81	-2,663.75	1,271.84	2,819.22	1.10	-0.93	
8,096.00	89.82	137.27	4,853.93	-2,709.20	1,314.01	2,881.22	0.48	-0.23	
8,156.00	90.18	137.62	4,853.93	-2,753.39	1,354.59	2,941.22	0.84	0.60	
8,217.00	90.62	137.36	4,853.51	-2,798.36	1,395.81	3,002.22	0.84	0.72	
8,278.00	89.74	137.54	4,853.32	-2,843.30	1,437.05	3,063.22	1.47	-1.44	
8,338.00	90.04	138.24	4,853.43	-2,887.81	1,477.29	3,123.21	1.27	0.50	
8,400.00	89.87	138.50	4,853.48	-2,934.15	1,518.48	3,185.20	0.50	-0.27	
8,461.00	89.30	138.33	4,853.92	-2,979.77	1,558.96	3,246.19	0.98	-0.93	
8,522.00	89.65	138.33	4,854.48	-3,025.34	1,599.52	3,307.17	0.57	0.57	
8,582.00	91.45	138.50	4,853.90	-3,070.21	1,639.34	3,367.15	3.01	3.00	
8,644.00	91.49	138.85	4,852.31	-3,116.76	1,680.26	3,429.11	0.57	0.06	
8,704.00	92.55	140.00	4,850.20	-3,162.30	1,719.26	3,489.03	2.61	1.77	
8,765.00	90.31	139.91	4,848.68	-3,208.98	1,758.50	3,549.94	3.68	-3.67	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 406H
Wellbore: OH
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 406H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
8,826.00	91.01	140.61	4,847.97	-3,255.88	1,797.49	3,610.85	1.62	1.15	
8,887.00	89.17	140.09	4,847.88	-3,302.85	1,836.41	3,671.76	3.13	-3.02	
8,948.00	87.36	138.85	4,849.72	-3,349.19	1,876.03	3,732.68	3.60	-2.97	
9,010.00	87.01	137.36	4,852.77	-3,395.28	1,917.38	3,794.60	2.47	-0.56	
9,072.00	87.76	136.83	4,855.60	-3,440.65	1,959.55	3,856.53	1.48	1.21	
9,132.00	88.11	136.13	4,857.76	-3,484.13	2,000.84	3,916.49	1.30	0.58	
9,193.00	88.51	136.31	4,859.56	-3,528.15	2,043.02	3,977.45	0.72	0.66	
9,253.00	90.53	136.66	4,860.06	-3,571.66	2,084.33	4,037.44	3.42	3.37	
9,314.00	92.90	136.83	4,858.24	-3,616.06	2,126.11	4,098.41	3.90	3.89	
9,375.00	92.33	136.48	4,855.45	-3,660.38	2,167.94	4,159.34	1.10	-0.93	
9,436.00	90.75	136.75	4,853.81	-3,704.69	2,209.82	4,220.31	2.63	-2.59	
9,497.00	90.66	136.57	4,853.06	-3,749.05	2,251.68	4,281.30	0.33	-0.15	
9,559.00	90.88	136.13	4,852.23	-3,793.91	2,294.47	4,343.29	0.79	0.35	
9,620.00	91.58	136.31	4,850.92	-3,837.94	2,336.67	4,404.27	1.18	1.15	
9,683.00	92.29	136.66	4,848.79	-3,883.60	2,380.02	4,467.22	1.26	1.13	
9,747.00	92.51	136.48	4,846.11	-3,930.04	2,423.98	4,531.16	0.44	0.34	
9,811.00	91.89	136.22	4,843.66	-3,976.31	2,468.13	4,595.11	1.05	-0.97	
9,874.00	92.29	136.22	4,841.36	-4,021.77	2,511.69	4,658.06	0.63	0.63	
9,938.00	91.06	135.08	4,839.49	-4,067.51	2,556.40	4,722.00	2.62	-1.92	
10,001.00	90.35	134.99	4,838.71	-4,112.09	2,600.92	4,784.95	1.14	-1.13	
10,064.00	90.66	135.95	4,838.16	-4,156.99	2,645.10	4,847.92	1.60	0.49	
10,128.00	91.06	136.48	4,837.20	-4,203.19	2,689.38	4,911.90	1.04	0.62	
10,191.00	90.35	137.01	4,836.42	-4,249.07	2,732.55	4,974.89	1.41	-1.13	
10,254.00	90.04	136.57	4,836.21	-4,294.99	2,775.68	5,037.89	0.85	-0.49	
10,317.00	90.57	136.04	4,835.87	-4,340.54	2,819.20	5,100.88	1.19	0.84	
10,381.00	90.97	136.39	4,835.01	-4,386.74	2,863.48	5,164.86	0.83	0.62	
10,444.00	89.17	136.22	4,834.94	-4,432.29	2,907.00	5,227.85	2.87	-2.86	
10,507.00	90.26	136.48	4,835.25	-4,477.87	2,950.49	5,290.84	1.78	1.73	
10,570.00	90.70	134.99	4,834.72	-4,522.98	2,994.46	5,353.82	2.47	0.70	
10,634.00	90.88	134.72	4,833.84	-4,568.12	3,039.82	5,417.75	0.51	0.28	
10,697.00	91.49	134.90	4,832.54	-4,612.51	3,084.51	5,480.68	1.01	0.97	
10,760.00	91.80	135.52	4,830.73	-4,657.20	3,128.87	5,543.62	1.10	0.49	
10,824.00	91.93	135.78	4,828.64	-4,702.94	3,173.59	5,607.56	0.45	0.20	
10,887.00	92.37	136.66	4,826.28	-4,748.40	3,217.14	5,670.50	1.56	0.70	
10,950.00	92.29	136.66	4,823.72	-4,794.18	3,260.35	5,733.45	0.13	-0.13	
10,990.00	90.79	137.10	4,822.64	-4,823.36	3,287.68	5,773.43	3.91	-3.75	FINAL SURVEY - 10990' MD
11,045.00	90.79	137.10	4,821.89	-4,863.65	3,325.11	5,828.43	0.00	0.00	PROJECTION / TD 11045' MD

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 406H
Wellbore: OH
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 406H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
NAGEEZI UNIT 406H PI	0.00	0.00	4,807.27	-4,914.11	3,332.21	1,906,928.65	2,742,293.85	36.240725	-107.768216
- actual wellpath misses target center by 53.02usft at 11045.00usft MD (4821.89 TVD, -4863.65 N, 3325.11 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,893.74	-796.11	-475.58	1,911,044.54	2,738,483.77	36.252038	-107.781129
- actual wellpath misses target center by 65.66usft at 5478.53usft MD (4885.55 TVD, -756.10 N, -424.17 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,777.78	-4,914.11	3,332.21	1,906,928.65	2,742,293.85	36.240725	-107.768216
- actual wellpath misses target center by 67.40usft at 11045.00usft MD (4821.89 TVD, -4863.65 N, 3325.11 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,812.28	-4,914.11	3,332.21	1,906,928.65	2,742,293.85	36.240725	-107.768216
- actual wellpath misses target center by 51.86usft at 11045.00usft MD (4821.89 TVD, -4863.65 N, 3325.11 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,827.27	-4,914.11	3,332.21	1,906,928.65	2,742,293.85	36.240725	-107.768216
- actual wellpath misses target center by 51.24usft at 11045.00usft MD (4821.89 TVD, -4863.65 N, 3325.11 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,852.01	-4,914.11	3,332.21	1,906,928.65	2,742,293.85	36.240725	-107.768216
- actual wellpath misses target center by 59.20usft at 11045.00usft MD (4821.89 TVD, -4863.65 N, 3325.11 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,839.38	-4,914.11	3,332.21	1,906,928.65	2,742,293.85	36.240725	-107.768216
- actual wellpath misses target center by 53.88usft at 11045.00usft MD (4821.89 TVD, -4863.65 N, 3325.11 E)									
- Point									
NAGEEZI UNIT 406H PI	0.00	0.00	4,888.00	-796.11	-475.58	1,911,044.54	2,738,483.77	36.252038	-107.781129
- actual wellpath misses target center by 65.19usft at 5478.53usft MD (4885.55 TVD, -756.10 N, -424.17 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
10,990.00	4,822.64	-4,823.36	3,287.68	FINAL SURVEY - 10990' MD
11,045.00	4,821.89	-4,863.65	3,325.11	PROJECTION / TD 11045' MD

Checked By: _____ Approved By: _____ Date: _____