

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 285957

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-47368
4. Property Code 328972	5. Property Name Dolores State Com	6. Well No. 706H

7. Surface Location

UL - Lot M	Section 2	Township 26S	Range 28E	Lot Idn m	Feet From 735	N/S Line S	Feet From 450	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot D	Section 35	Township 25S	Range 28E	Lot Idn D	Feet From 200	N/S Line N	Feet From 450	E/W Line W	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2954
16. Multiple N	17. Proposed Depth 19289	18. Formation Wolfcamp	19. Contractor	20. Spud Date 8/31/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	45.5	768	450	0
Int1	9.875	7.625	29.7	8924	1100	0
Prod	6.75	5.5	20	19289	1900	8424

Casing/Cement Program: Additional Comments

Drill 14-3/4" hole to ~768' w/ fresh water. Run 10-3/4" 45.5# J-55 BTC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~8,924' with cut brine emulsion. Run 7-5/8" 29.7# L-80 BTC to TD and cement to surface in one stage. Drill 6-3/4" vertical hole, curve & lateral to 19,289' with OBM. Run 5-1/2" 20# P110 Talon HTQ casing from TD to surface and cement to 8,424' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Diane Kuykendall

Title: Production Accounting Director

Email Address: dkuykendall@concho.com

Date: 8/26/2020

Phone: 432-685-4372

OIL CONSERVATION DIVISION

Approved By: Scott Cox

Title: Petroleum Engineer Supervisor

Approved Date: 9/24/2020 Expiration Date: 9/24/2022

Conditions of Approval Attached

District I1625 N. French Dr., Hobbs, NM 88240
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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
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number 30-015		2 Pool Code 98220		3 Pool Name Purple Sage, Wolfcamp Gas	
4 Property Code		5 Property Name DOLORES STATE COM			6 Well Number 706H
7 OGRID No. 229137		8 Operator Name COG OPERATING LLC			9 Elevation 2954'

" Surface Location

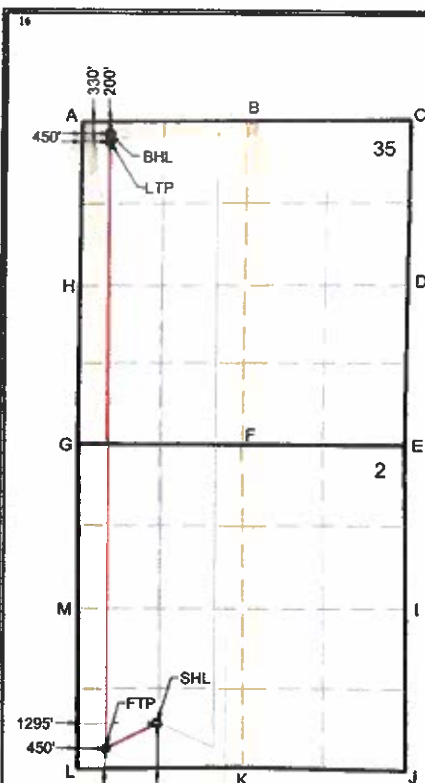
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	26-S	28-E		735'	SOUTH	1295'	WEST	EDDY

" 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	East/West line	County
D	35	25-S	28-E		200'	NORTH	450'	WEST	EDDY

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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.



CORNER DATA
NEW MEXICO EAST - NAD 83
A - FOUND IRON PIPE W/ BRASS CAP
N:397851.80' E:624033.60'
B - CALCULATED CORNER
N:397886.49' E:626692.67'
C - FOUND IRON PIPE W/ BRASS CAP
N:397921.17' E:629351.75'
D - FOUND IRON PIPE W/ BRASS CAP
N:395246.36' E:629321.59'
E - FOUND IRON PIPE W/ BRASS CAP
N:392575.03' E:629290.60'
F - FOUND IRON PIPE W/ BRASS CAP
N:392573.77' E:626640.00'
G - FOUND IRON PIPE W/ BRASS CAP
N:392564.34' E:623990.77'
H - FOUND IRON PIPE W/ BRASS CAP
N:395212.80' E:624010.88'
I - FOUND IRON PIPE W/ BRASS CAP
N:389922.52' E:629315.86'
J - FOUND IRON PIPE W/ BRASS CAP
N:387279.97' E:629333.53'
K - FOUND IRON PIPE W/ BRASS CAP
N:387325.32' E:626679.36'
L - CALCULATED CORNER
N:387283.72' E:624016.65'
M - CALCULATED CORNER
N:389924.03' E:624003.71'

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=624480.82
Y=397527.61
LAT.= 32.09259837° N
LONG.= 104.06484900° W
330° FNL, 450° FWL
SECTION 35

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=624481.94
Y=397657.63
LAT.= 32.09285580° N
LONG.= 104.06484434° W
200° FNL, 450° FWL
SECTION 35

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=625308.43
Y=388038.99
LAT.= 32.06650906° N
LONG.= 104.06225352° W
735° FSL, 1295° FWL
SECTION 2

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=624485.01
Y=387620.76
LAT.= 32.06536517° N
LONG.= 104.06497964° W
330° FSL, 450° FWL
SECTION 2

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: *Mayte Reyes* Date: 8-24-2020

Printed Name: **Mayte Reyes**

E-mail Address: **mreyes1@concho.com**

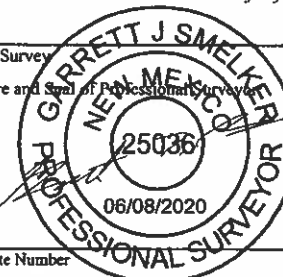
18 SURVEYOR CERTIFICATION

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.

Date of Survey:

Signature and Seal of Professional Surveyor

Certificate Number



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GAS CAPTURE PLAN

Date: 9/24/2020

☒ Original

Operator & OGRID No.: [229137] COG OPERATING LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Dolores State Com #706H	30-015- 47368	M-2-26S- 28E	0735S 0450W	5429	None	It will require additional line to connect to the facility but the amount is unknown currently. Processing Plant Location: Sec 35, Blk 57, T2S, Culberson County, TX

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC Texas Pipeline, Ltd. and will be connected to ETC Texas Pipeline, Ltd. Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC Texas Pipeline, Ltd. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC Texas Pipeline, Ltd. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC Texas Pipeline, Ltd. Processing Plant located in Sec. 02, Twn. 26S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC Texas Pipeline, Ltd. system at that time. Based on current information, it is COG OPERATING LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 285957

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-47368
		Well: Dolores State Com #706H

Created By	Comment	Comment Date
mreyes4	COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	8/26/2020

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Form APD Conditions

Permit 285957

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-47368
	Well: Dolores State Com #706H

OCD Reviewer	Condition
ksimmons	Will require a directional survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

DOLORES STATE PROJECT (ATLAS 2628)

DOLORES ST COM #706H

OWB

Plan: PWP1

Standard Survey Report

10 August, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Project	ATLAS PROSPECT (NM-E)		
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		

Well	DOLORES ST COM #706H				
Well Position	+N/-S	0.0 usft	Northing:	387,981.43 usft	Latitude: 32° 3' 58.987 N
	+E/-W	0.0 usft	Easting:	584,123.66 usft	Longitude: 104° 3' 42.360 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 2,954.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/12/2020	6.88	59.71	47,457.31634793

Design	PWP1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	0.00	

Survey Tool Program	Date	8/10/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,289.5	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Planned 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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned 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)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	243.63	2,600.0	-0.8	-1.6	-0.8	2.00	2.00	0.00
2,700.0	4.00	243.63	2,699.8	-3.1	-6.3	-3.1	2.00	2.00	0.00
2,750.0	5.00	243.63	2,749.7	-4.8	-9.8	-4.8	2.00	2.00	0.00
Start 6324.6 hold at 2750.0 MD									
2,800.0	5.00	243.63	2,799.5	-6.8	-13.7	-6.8	0.00	0.00	0.00
2,900.0	5.00	243.63	2,899.1	-10.7	-21.5	-10.7	0.00	0.00	0.00
3,000.0	5.00	243.63	2,998.7	-14.5	-29.3	-14.5	0.00	0.00	0.00
3,100.0	5.00	243.63	3,098.4	-18.4	-37.1	-18.4	0.00	0.00	0.00
3,200.0	5.00	243.63	3,198.0	-22.3	-44.9	-22.3	0.00	0.00	0.00
3,300.0	5.00	243.63	3,297.6	-26.1	-52.7	-26.1	0.00	0.00	0.00
3,400.0	5.00	243.63	3,397.2	-30.0	-60.5	-30.0	0.00	0.00	0.00
3,500.0	5.00	243.63	3,496.8	-33.9	-68.3	-33.9	0.00	0.00	0.00
3,600.0	5.00	243.63	3,596.4	-37.8	-76.1	-37.8	0.00	0.00	0.00
3,700.0	5.00	243.63	3,696.1	-41.6	-83.9	-41.6	0.00	0.00	0.00
3,800.0	5.00	243.63	3,795.7	-45.5	-91.8	-45.5	0.00	0.00	0.00
3,900.0	5.00	243.63	3,895.3	-49.4	-99.6	-49.4	0.00	0.00	0.00
4,000.0	5.00	243.63	3,994.9	-53.2	-107.4	-53.2	0.00	0.00	0.00
4,100.0	5.00	243.63	4,094.5	-57.1	-115.2	-57.1	0.00	0.00	0.00
4,200.0	5.00	243.63	4,194.2	-61.0	-123.0	-61.0	0.00	0.00	0.00
4,300.0	5.00	243.63	4,293.8	-64.9	-130.8	-64.9	0.00	0.00	0.00
4,400.0	5.00	243.63	4,393.4	-68.7	-138.6	-68.7	0.00	0.00	0.00
4,500.0	5.00	243.63	4,493.0	-72.6	-146.4	-72.6	0.00	0.00	0.00
4,600.0	5.00	243.63	4,592.6	-76.5	-154.2	-76.5	0.00	0.00	0.00
4,700.0	5.00	243.63	4,692.3	-80.3	-162.0	-80.3	0.00	0.00	0.00
4,800.0	5.00	243.63	4,791.9	-84.2	-169.8	-84.2	0.00	0.00	0.00
4,900.0	5.00	243.63	4,891.5	-88.1	-177.6	-88.1	0.00	0.00	0.00
5,000.0	5.00	243.63	4,991.1	-92.0	-185.5	-92.0	0.00	0.00	0.00
5,100.0	5.00	243.63	5,090.7	-95.8	-193.3	-95.8	0.00	0.00	0.00
5,200.0	5.00	243.63	5,190.4	-99.7	-201.1	-99.7	0.00	0.00	0.00
5,300.0	5.00	243.63	5,290.0	-103.6	-208.9	-103.6	0.00	0.00	0.00
5,400.0	5.00	243.63	5,389.6	-107.4	-216.7	-107.4	0.00	0.00	0.00
5,500.0	5.00	243.63	5,489.2	-111.3	-224.5	-111.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned 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)	
5,600.0	5.00	243.63	5,588.8	-115.2	-232.3	-115.2	0.00	0.00	0.00	
5,700.0	5.00	243.63	5,688.5	-119.1	-240.1	-119.1	0.00	0.00	0.00	
5,800.0	5.00	243.63	5,788.1	-122.9	-247.9	-122.9	0.00	0.00	0.00	
5,900.0	5.00	243.63	5,887.7	-126.8	-255.7	-126.8	0.00	0.00	0.00	
6,000.0	5.00	243.63	5,987.3	-130.7	-263.5	-130.7	0.00	0.00	0.00	
6,100.0	5.00	243.63	6,086.9	-134.5	-271.3	-134.5	0.00	0.00	0.00	
6,200.0	5.00	243.63	6,186.6	-138.4	-279.2	-138.4	0.00	0.00	0.00	
6,300.0	5.00	243.63	6,286.2	-142.3	-287.0	-142.3	0.00	0.00	0.00	
6,400.0	5.00	243.63	6,385.8	-146.2	-294.8	-146.2	0.00	0.00	0.00	
6,500.0	5.00	243.63	6,485.4	-150.0	-302.6	-150.0	0.00	0.00	0.00	
6,600.0	5.00	243.63	6,585.0	-153.9	-310.4	-153.9	0.00	0.00	0.00	
6,700.0	5.00	243.63	6,684.7	-157.8	-318.2	-157.8	0.00	0.00	0.00	
6,800.0	5.00	243.63	6,784.3	-161.7	-326.0	-161.7	0.00	0.00	0.00	
6,900.0	5.00	243.63	6,883.9	-165.5	-333.8	-165.5	0.00	0.00	0.00	
7,000.0	5.00	243.63	6,983.5	-169.4	-341.6	-169.4	0.00	0.00	0.00	
7,100.0	5.00	243.63	7,083.1	-173.3	-349.4	-173.3	0.00	0.00	0.00	
7,200.0	5.00	243.63	7,182.7	-177.1	-357.2	-177.1	0.00	0.00	0.00	
7,300.0	5.00	243.63	7,282.4	-181.0	-365.0	-181.0	0.00	0.00	0.00	
7,400.0	5.00	243.63	7,382.0	-184.9	-372.9	-184.9	0.00	0.00	0.00	
7,500.0	5.00	243.63	7,481.6	-188.8	-380.7	-188.8	0.00	0.00	0.00	
7,600.0	5.00	243.63	7,581.2	-192.6	-388.5	-192.6	0.00	0.00	0.00	
7,700.0	5.00	243.63	7,680.8	-196.5	-396.3	-196.5	0.00	0.00	0.00	
7,800.0	5.00	243.63	7,780.5	-200.4	-404.1	-200.4	0.00	0.00	0.00	
7,900.0	5.00	243.63	7,880.1	-204.2	-411.9	-204.2	0.00	0.00	0.00	
8,000.0	5.00	243.63	7,979.7	-208.1	-419.7	-208.1	0.00	0.00	0.00	
8,100.0	5.00	243.63	8,079.3	-212.0	-427.5	-212.0	0.00	0.00	0.00	
8,200.0	5.00	243.63	8,178.9	-215.9	-435.3	-215.9	0.00	0.00	0.00	
8,300.0	5.00	243.63	8,278.6	-219.7	-443.1	-219.7	0.00	0.00	0.00	
8,400.0	5.00	243.63	8,378.2	-223.6	-450.9	-223.6	0.00	0.00	0.00	
8,500.0	5.00	243.63	8,477.8	-227.5	-458.7	-227.5	0.00	0.00	0.00	
8,600.0	5.00	243.63	8,577.4	-231.3	-466.6	-231.3	0.00	0.00	0.00	
8,700.0	5.00	243.63	8,677.0	-235.2	-474.4	-235.2	0.00	0.00	0.00	
8,800.0	5.00	243.63	8,776.7	-239.1	-482.2	-239.1	0.00	0.00	0.00	
8,900.0	5.00	243.63	8,876.3	-243.0	-490.0	-243.0	0.00	0.00	0.00	
9,000.0	5.00	243.63	8,975.9	-246.8	-497.8	-246.8	0.00	0.00	0.00	
9,074.6	5.00	243.63	9,050.2	-249.7	-503.6	-249.7	0.00	0.00	0.00	
Start DLS 12.00 TFO 92.99										
9,100.0	5.72	275.86	9,075.5	-250.1	-505.9	-250.1	12.00	2.82	126.82	
9,200.0	15.59	318.38	9,173.8	-239.5	-519.8	-239.5	12.00	9.87	42.52	
9,300.0	27.22	326.85	9,266.7	-210.2	-541.3	-210.2	12.00	11.63	8.47	
9,400.0	39.06	330.45	9,350.3	-163.5	-569.4	-163.5	12.00	11.84	3.60	
9,500.0	50.97	332.57	9,420.9	-101.4	-603.0	-101.4	12.00	11.91	2.12	
9,600.0	62.90	334.07	9,475.4	-26.6	-640.5	-26.6	12.00	11.93	1.50	
9,700.0	74.85	335.27	9,511.4	57.6	-680.3	57.6	12.00	11.95	1.21	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned 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)
9,800.0	86.80	336.35	9,527.3	147.5	-720.7	147.5	12.00	11.95	1.08
9,826.8	90.00	336.63	9,528.0	172.0	-731.3	172.0	12.00	11.95	1.05
Start DLS 4.00 TFO 90.00									
9,900.0	90.00	339.56	9,528.0	240.0	-758.6	240.0	4.00	0.00	4.00
10,000.0	90.00	343.56	9,528.0	334.8	-790.3	334.8	4.00	0.00	4.00
10,100.0	90.00	347.56	9,528.0	431.6	-815.2	431.6	4.00	0.00	4.00
10,200.0	90.00	351.56	9,528.0	529.9	-833.3	529.9	4.00	0.00	4.00
10,300.0	90.00	355.56	9,528.0	629.3	-844.5	629.3	4.00	0.00	4.00
10,400.0	90.00	359.56	9,528.0	729.2	-848.8	729.2	4.00	0.00	4.00
10,403.6	90.00	359.70	9,528.0	732.8	-848.8	732.8	4.00	0.00	4.00
Start 3792.8 hold at 10403.6 MD									
10,500.0	90.00	359.70	9,528.0	829.2	-849.3	829.2	0.00	0.00	0.00
10,600.0	90.00	359.70	9,528.0	929.2	-849.8	929.2	0.00	0.00	0.00
10,700.0	90.00	359.70	9,528.0	1,029.2	-850.4	1,029.2	0.00	0.00	0.00
10,800.0	90.00	359.70	9,528.0	1,129.2	-850.9	1,129.2	0.00	0.00	0.00
10,900.0	90.00	359.70	9,528.0	1,229.2	-851.4	1,229.2	0.00	0.00	0.00
11,000.0	90.00	359.70	9,528.0	1,329.2	-851.9	1,329.2	0.00	0.00	0.00
11,100.0	90.00	359.70	9,528.0	1,429.2	-852.4	1,429.2	0.00	0.00	0.00
11,200.0	90.00	359.70	9,528.0	1,529.2	-853.0	1,529.2	0.00	0.00	0.00
11,300.0	90.00	359.70	9,528.0	1,629.2	-853.5	1,629.2	0.00	0.00	0.00
11,400.0	90.00	359.70	9,528.0	1,729.2	-854.0	1,729.2	0.00	0.00	0.00
11,500.0	90.00	359.70	9,528.0	1,829.2	-854.5	1,829.2	0.00	0.00	0.00
11,600.0	90.00	359.70	9,528.0	1,929.2	-855.0	1,929.2	0.00	0.00	0.00
11,700.0	90.00	359.70	9,528.0	2,029.2	-855.5	2,029.2	0.00	0.00	0.00
11,800.0	90.00	359.70	9,528.0	2,129.2	-856.1	2,129.2	0.00	0.00	0.00
11,900.0	90.00	359.70	9,528.0	2,229.2	-856.6	2,229.2	0.00	0.00	0.00
12,000.0	90.00	359.70	9,528.0	2,329.2	-857.1	2,329.2	0.00	0.00	0.00
12,100.0	90.00	359.70	9,528.0	2,429.2	-857.6	2,429.2	0.00	0.00	0.00
12,200.0	90.00	359.70	9,528.0	2,529.2	-858.1	2,529.2	0.00	0.00	0.00
12,300.0	90.00	359.70	9,528.0	2,629.2	-858.7	2,629.2	0.00	0.00	0.00
12,400.0	90.00	359.70	9,528.0	2,729.2	-859.2	2,729.2	0.00	0.00	0.00
12,500.0	90.00	359.70	9,528.0	2,829.2	-859.7	2,829.2	0.00	0.00	0.00
12,600.0	90.00	359.70	9,528.0	2,929.2	-860.2	2,929.2	0.00	0.00	0.00
12,700.0	90.00	359.70	9,528.0	3,029.1	-860.7	3,029.1	0.00	0.00	0.00
12,800.0	90.00	359.70	9,528.0	3,129.1	-861.3	3,129.1	0.00	0.00	0.00
12,900.0	90.00	359.70	9,528.0	3,229.1	-861.8	3,229.1	0.00	0.00	0.00
13,000.0	90.00	359.70	9,528.0	3,329.1	-862.3	3,329.1	0.00	0.00	0.00
13,100.0	90.00	359.70	9,528.0	3,429.1	-862.8	3,429.1	0.00	0.00	0.00
13,200.0	90.00	359.70	9,528.0	3,529.1	-863.3	3,529.1	0.00	0.00	0.00
13,300.0	90.00	359.70	9,528.0	3,629.1	-863.8	3,629.1	0.00	0.00	0.00
13,400.0	90.00	359.70	9,528.0	3,729.1	-864.4	3,729.1	0.00	0.00	0.00
13,500.0	90.00	359.70	9,528.0	3,829.1	-864.9	3,829.1	0.00	0.00	0.00
13,600.0	90.00	359.70	9,528.0	3,929.1	-865.4	3,929.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned 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)
13,700.0	90.00	359.70	9,528.0	4,029.1	-865.9	4,029.1	0.00	0.00	0.00
13,800.0	90.00	359.70	9,528.0	4,129.1	-866.4	4,129.1	0.00	0.00	0.00
13,900.0	90.00	359.70	9,528.0	4,229.1	-867.0	4,229.1	0.00	0.00	0.00
14,000.0	90.00	359.70	9,528.0	4,329.1	-867.5	4,329.1	0.00	0.00	0.00
14,100.0	90.00	359.70	9,528.0	4,429.1	-868.0	4,429.1	0.00	0.00	0.00
14,196.4	90.00	359.70	9,528.0	4,525.5	-868.5	4,525.5	0.00	0.00	0.00
Start DLS 2.00 TFO 90.03									
14,200.0	90.00	359.77	9,528.0	4,529.1	-868.5	4,529.1	2.00	0.00	2.00
14,235.2	90.00	0.48	9,528.0	4,564.3	-868.4	4,564.3	2.00	0.00	2.00
Start 5054.3 hold at 14235.2 MD									
14,300.0	90.00	0.48	9,528.0	4,629.1	-867.9	4,629.1	0.00	0.00	0.00
14,400.0	90.00	0.48	9,528.0	4,729.1	-867.1	4,729.1	0.00	0.00	0.00
14,500.0	90.00	0.48	9,528.0	4,829.1	-866.2	4,829.1	0.00	0.00	0.00
14,600.0	90.00	0.48	9,528.0	4,929.1	-865.4	4,929.1	0.00	0.00	0.00
14,700.0	90.00	0.48	9,528.0	5,029.1	-864.6	5,029.1	0.00	0.00	0.00
14,800.0	90.00	0.48	9,528.0	5,129.1	-863.7	5,129.1	0.00	0.00	0.00
14,900.0	90.00	0.48	9,528.0	5,229.1	-862.9	5,229.1	0.00	0.00	0.00
15,000.0	90.00	0.48	9,528.0	5,329.1	-862.1	5,329.1	0.00	0.00	0.00
15,100.0	90.00	0.48	9,528.0	5,429.1	-861.2	5,429.1	0.00	0.00	0.00
15,200.0	90.00	0.48	9,528.0	5,529.1	-860.4	5,529.1	0.00	0.00	0.00
15,300.0	90.00	0.48	9,528.0	5,629.1	-859.6	5,629.1	0.00	0.00	0.00
15,400.0	90.00	0.48	9,528.0	5,729.1	-858.7	5,729.1	0.00	0.00	0.00
15,500.0	90.00	0.48	9,528.0	5,829.1	-857.9	5,829.1	0.00	0.00	0.00
15,600.0	90.00	0.48	9,528.0	5,929.1	-857.0	5,929.1	0.00	0.00	0.00
15,700.0	90.00	0.48	9,528.0	6,029.1	-856.2	6,029.1	0.00	0.00	0.00
15,800.0	90.00	0.48	9,528.0	6,129.1	-855.4	6,129.1	0.00	0.00	0.00
15,900.0	90.00	0.48	9,528.0	6,229.1	-854.5	6,229.1	0.00	0.00	0.00
16,000.0	90.00	0.48	9,528.0	6,329.1	-853.7	6,329.1	0.00	0.00	0.00
16,100.0	90.00	0.48	9,528.0	6,429.1	-852.9	6,429.1	0.00	0.00	0.00
16,200.0	90.00	0.48	9,528.0	6,529.1	-852.0	6,529.1	0.00	0.00	0.00
16,300.0	90.00	0.48	9,528.0	6,629.1	-851.2	6,629.1	0.00	0.00	0.00
16,400.0	90.00	0.48	9,528.0	6,729.1	-850.4	6,729.1	0.00	0.00	0.00
16,500.0	90.00	0.48	9,528.0	6,829.0	-849.5	6,829.0	0.00	0.00	0.00
16,600.0	90.00	0.48	9,528.0	6,929.0	-848.7	6,929.0	0.00	0.00	0.00
16,700.0	90.00	0.48	9,528.0	7,029.0	-847.9	7,029.0	0.00	0.00	0.00
16,800.0	90.00	0.48	9,528.0	7,129.0	-847.0	7,129.0	0.00	0.00	0.00
16,900.0	90.00	0.48	9,528.0	7,229.0	-846.2	7,229.0	0.00	0.00	0.00
17,000.0	90.00	0.48	9,528.0	7,329.0	-845.4	7,329.0	0.00	0.00	0.00
17,100.0	90.00	0.48	9,528.0	7,429.0	-844.5	7,429.0	0.00	0.00	0.00
17,200.0	90.00	0.48	9,528.0	7,529.0	-843.7	7,529.0	0.00	0.00	0.00
17,300.0	90.00	0.48	9,528.0	7,629.0	-842.9	7,629.0	0.00	0.00	0.00
17,400.0	90.00	0.48	9,528.0	7,729.0	-842.0	7,729.0	0.00	0.00	0.00
17,500.0	90.00	0.48	9,528.0	7,829.0	-841.2	7,829.0	0.00	0.00	0.00
17,600.0	90.00	0.48	9,528.0	7,929.0	-840.4	7,929.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned 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)
17,700.0	90.00	0.48	9,528.0	8,029.0	-839.5	8,029.0	0.00	0.00	0.00
17,800.0	90.00	0.48	9,528.0	8,129.0	-838.7	8,129.0	0.00	0.00	0.00
17,900.0	90.00	0.48	9,528.0	8,229.0	-837.8	8,229.0	0.00	0.00	0.00
18,000.0	90.00	0.48	9,528.0	8,329.0	-837.0	8,329.0	0.00	0.00	0.00
18,100.0	90.00	0.48	9,528.0	8,429.0	-836.2	8,429.0	0.00	0.00	0.00
18,200.0	90.00	0.48	9,528.0	8,529.0	-835.3	8,529.0	0.00	0.00	0.00
18,300.0	90.00	0.48	9,528.0	8,629.0	-834.5	8,629.0	0.00	0.00	0.00
18,400.0	90.00	0.48	9,528.0	8,729.0	-833.7	8,729.0	0.00	0.00	0.00
18,500.0	90.00	0.48	9,528.0	8,829.0	-832.8	8,829.0	0.00	0.00	0.00
18,600.0	90.00	0.48	9,528.0	8,929.0	-832.0	8,929.0	0.00	0.00	0.00
18,700.0	90.00	0.48	9,528.0	9,029.0	-831.2	9,029.0	0.00	0.00	0.00
18,800.0	90.00	0.48	9,528.0	9,129.0	-830.3	9,129.0	0.00	0.00	0.00
18,900.0	90.00	0.48	9,528.0	9,229.0	-829.5	9,229.0	0.00	0.00	0.00
19,000.0	90.00	0.48	9,528.0	9,329.0	-828.7	9,329.0	0.00	0.00	0.00
19,100.0	90.00	0.48	9,528.0	9,429.0	-827.8	9,429.0	0.00	0.00	0.00
19,200.0	90.00	0.48	9,528.0	9,529.0	-827.0	9,529.0	0.00	0.00	0.00
19,289.5	90.00	0.48	9,528.0	9,618.5	-826.2	9,618.5	0.00	0.00	0.00
TD at 19289.5									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL DOLORES ST C - plan hits target center - Rectangle (sides W100.0 H5,092.0 D20.0)	0.00	180.48	9,528.0	9,618.5	-826.2	397,599.89	583,297.41	32° 5' 34.197 N	104° 3' 51.683 W
FTP DOLORES ST C - plan misses target center by 408.4usft at 9459.3usft MD (9394.0 TVD, -128.3 N, -588.8 E) - Circle (radius 50.0)	0.00	0.00	9,528.0	-418.2	-843.4	387,563.22	583,280.25	32° 3' 54.869 N	104° 3' 52.174 W
T1 DOLORES ST CO - plan hits target center - Rectangle (sides W100.0 H4,946.0 D20.0)	0.00	179.70	9,528.0	4,525.5	-868.5	392,506.98	583,255.16	32° 4' 43.796 N	104° 3' 52.322 W
LTP DOLORES ST C - plan hits target center - Point	0.00	0.00	9,528.0	9,488.4	-827.4	397,469.86	583,296.29	32° 5' 32.910 N	104° 3' 51.700 W

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=30' @ 2995.0usft (TBD)
Site:	DOLORES STATE PROJECT (ATLAS 2628)	MD Reference:	KB=30' @ 2995.0usft (TBD)
Well:	DOLORES ST COM #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

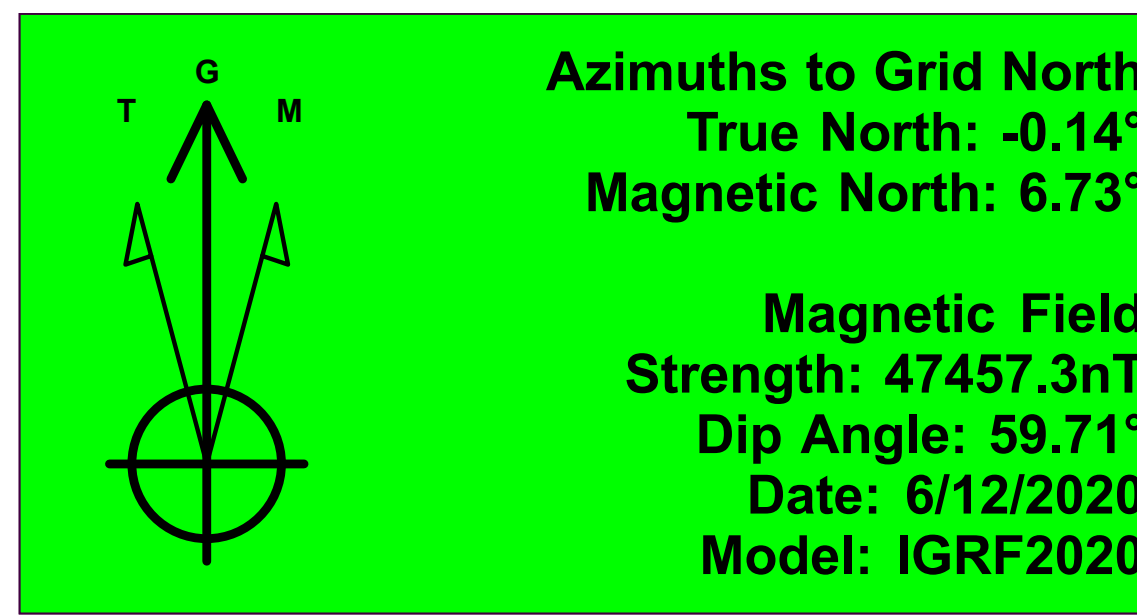
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2750	2750	-5	-10	Start 6324.6 hold at 2750.0 MD
9075	9050	-250	-504	Start DLS 12.00 TFO 92.99
9827	9528	172	-731	Start DLS 4.00 TFO 90.00
10,404	9528	733	-849	Start 3792.8 hold at 10403.6 MD
14,196	9528	4526	-868	Start DLS 2.00 TFO 90.03
14,235	9528	4564	-868	Start 5054.3 hold at 14235.2 MD
19,290	9528	9618	-826	TD at 19289.5

Checked By: _____ Approved By: _____ Date: _____

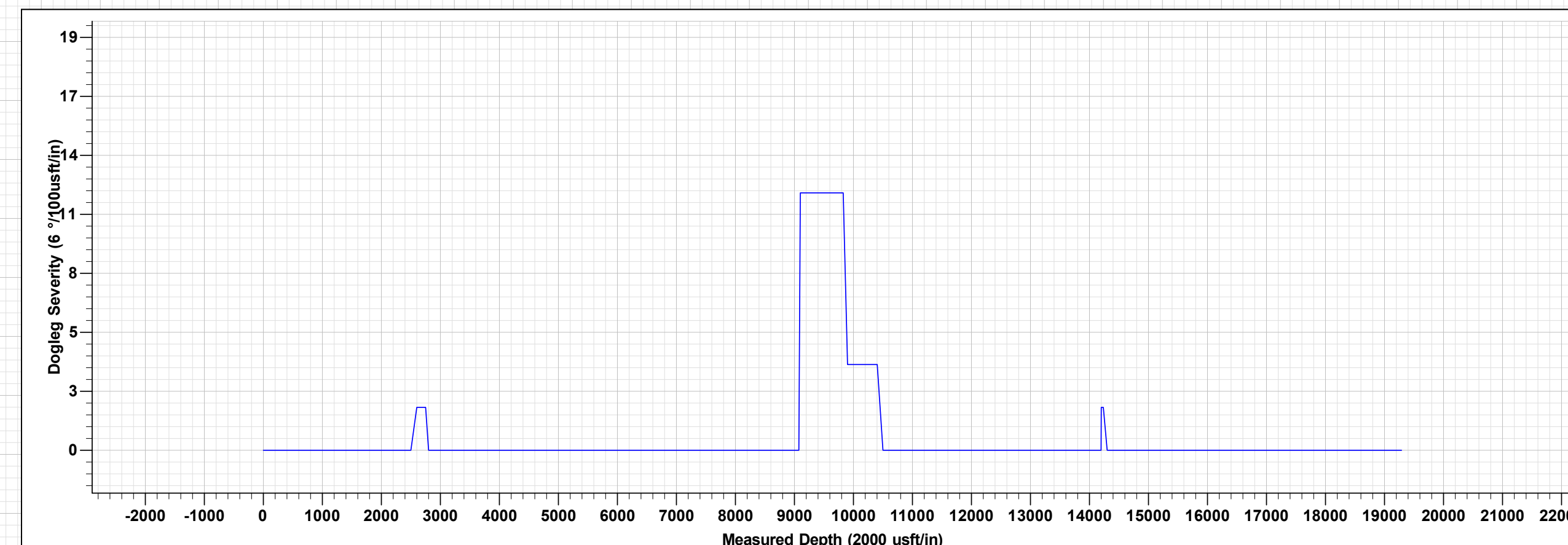
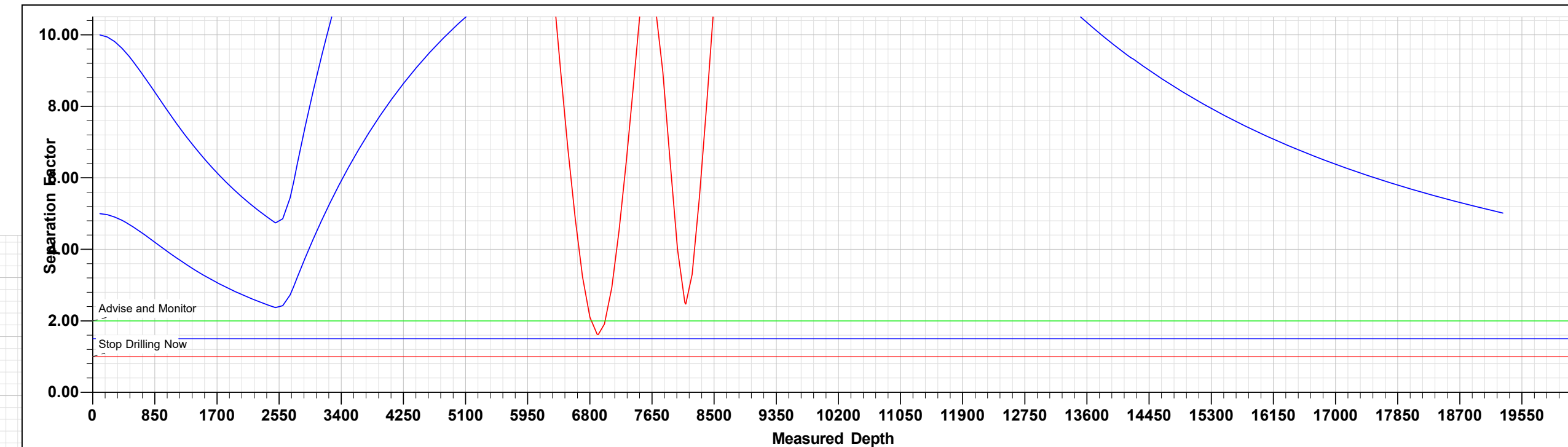


Project: ATLAS PROSPECT (NM-E)
Site: DOLORES STATE PROJECT (ATLAS 2628)
Well: DOLORES ST COM #706H
Wellbore: OWB
Design: PWP1
GL: 2954.0
KB=30' @ 2995.0usft (TBD)



WELL DETAILS: DOLORES ST COM #706H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387981.43	584123.66	32° 3' 58.987 N	104° 3' 42.360 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP DOLORES ST COM #706H	9528.0	-418.2	-843.4	387563.22	583280.25	32° 3' 54.869 N
LTP DOLORES ST COM #706H	9528.0	9488.4	-827.4	397469.86	583296.29	32° 5' 32.910 N
PBHL DOLORES ST COM #706H	9528.0	9618.5	-826.3	397599.89	583297.41	32° 5' 34.197 N
T1 DOLORES ST COM #706H	9528.0	4525.5	-868.5	392506.98	583255.16	32° 4' 43.796 N



DOLORES ST COM #706H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.0	5.00	243.63	2749.7	-4.8	-9.8	2.00	243.63	-4.8	Start 6324.6 hold at 2750.0 MD
9074.6	5.00	243.63	9050.2	-249.7	-503.6	0.00	0.00	-249.7	Start DLS 12.00 TFO 92.99
9826.8	90.00	336.63	9528.0	172.0	-731.3	12.00	92.99	172.0	Start DLS 4.00 TFO 90.00
10403.6	90.00	359.70	9528.0	732.8	-848.8	4.00	90.00	732.8	Start 3792.8 hold at 10403.6 MD
14196.4	90.00	359.70	9528.0	4525.5	-868.5	0.00	0.00	4525.5	Start DLS 2.00 TFO 90.03
14235.2	90.00	0.48	9528.0	4564.3	-868.4	2.00	90.03	4564.3	Start 5054.3 hold at 14235.2 MD
19289.5	90.00	0.48	9528.0	9618.5	-826.3	0.00	0.00	9618.5	TD at 19289.5

