

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 285905

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 30-015-47365
4. Property Code 328972	5. Property Name Dolores State Com	6. Well No. 704H

7. Surface Location

UL - Lot N	Section 2	Township 26S	Range 28E	Lot Idn N	Feet From 735	N/S Line S	Feet From 1355	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot C	Section 35	Township 25S	Range 28E	Lot Idn C	Feet From 200	N/S Line N	Feet From 2202	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 19263	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	788	450	0
Int1	9.875	7.625	29.7	8947	1100	0
Prod	6.75	5.5	20	19263	1900	8447

Casing/Cement Program: Additional Comments

Drill 14-3/4" hole to ~788' 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 ~8,947' 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 19,263' with OBM. Run 5-1/2" 20# P110 Talon HTQ casing from TD to surface and cement to 8,447' 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

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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
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 704H	
7 OGRID No. 229137		8 Operator Name COG OPERATING LLC						9 Elevation 2954'	
10 Surface Location									
UL or lot no. N	Section 2	Township 26-S	Range 28-E	Lot Idn	Feet from the 735'	North/South line SOUTH	Feet from the 1355'	East/West line WEST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. C	Section 35	Township 25-S	Range 28-E	Lot Idn	Feet from the 200'	North/South line NORTH	Feet from the 2202'	East/West line WEST	County EDDY
12 Dedicated Acres 640	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.

	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'	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. <i>Mayte Reyes</i> 8-24-2020 Signature Date Mayte Reyes Printed Name mreyes1@concho.com E-mail Address	
	LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=626233.08 Y=397550.48 LAT.= 32.09264909° N LONG.= 104.65919051° W 330' FNL, 2202' FWL SECTION 35	BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=626234.20 Y=397680.49 LAT.= 32.09300651° N LONG.= 104.65918582° W 200' FNL, 2202' FWL SECTION 35	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
	SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=625368.43 Y=388039.93 LAT.= 32.06651122° N LONG.= 104.06205983° W 735' FSL, 1355' FWL SECTION 2	FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=626218.89 Y=387648.14 LAT.= 32.06542831° N LONG.= 104.05932400° W 330' FSL, 2202' FWL SECTION 2	Garrett J. Smelker Professional Surveyor 25036 06/08/2020 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 #704H	30-015- 47365	N-2-26S- 28E	0735S 1355W	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 285905

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-47365
		Well: Dolores State Com #704H

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.	8/24/2020

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Form APD Conditions

Permit 285905

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-47365
	Well: Dolores State Com #704H

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	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.
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

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 #704H

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 #704H
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 #704H	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 #704H				
Well Position	+N/-S	0.0 usft	Northing:	387,982.36 usft	Latitude: 32° 3' 58.995 N
	+E/-W	0.0 usft	Easting:	584,183.66 usft	Longitude: 104° 3' 41.663 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	47,457.33824558

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	5.13	

Survey Tool Program	Date	8/10/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,073.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,073.0	19,263.8	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 #704H
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 #704H	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	110.00	2,600.0	-0.6	1.6	-0.4	2.00	2.00	0.00
2,700.0	4.00	110.00	2,699.8	-2.4	6.6	-1.8	2.00	2.00	0.00
2,750.0	5.00	110.00	2,749.7	-3.7	10.2	-2.8	2.00	2.00	0.00
Start 6347.9 hold at 2750.0 MD									
2,800.0	5.00	110.00	2,799.5	-5.2	14.3	-3.9	0.00	0.00	0.00
2,900.0	5.00	110.00	2,899.1	-8.2	22.5	-6.2	0.00	0.00	0.00
3,000.0	5.00	110.00	2,998.7	-11.2	30.7	-8.4	0.00	0.00	0.00
3,100.0	5.00	110.00	3,098.4	-14.2	38.9	-10.6	0.00	0.00	0.00
3,200.0	5.00	110.00	3,198.0	-17.1	47.1	-12.9	0.00	0.00	0.00
3,300.0	5.00	110.00	3,297.6	-20.1	55.3	-15.1	0.00	0.00	0.00
3,400.0	5.00	110.00	3,397.2	-23.1	63.5	-17.3	0.00	0.00	0.00
3,500.0	5.00	110.00	3,496.8	-26.1	71.7	-19.6	0.00	0.00	0.00
3,600.0	5.00	110.00	3,596.4	-29.1	79.9	-21.8	0.00	0.00	0.00
3,700.0	5.00	110.00	3,696.1	-32.0	88.0	-24.0	0.00	0.00	0.00
3,800.0	5.00	110.00	3,795.7	-35.0	96.2	-26.3	0.00	0.00	0.00
3,900.0	5.00	110.00	3,895.3	-38.0	104.4	-28.5	0.00	0.00	0.00
4,000.0	5.00	110.00	3,994.9	-41.0	112.6	-30.7	0.00	0.00	0.00
4,100.0	5.00	110.00	4,094.5	-44.0	120.8	-33.0	0.00	0.00	0.00
4,200.0	5.00	110.00	4,194.2	-47.0	129.0	-35.2	0.00	0.00	0.00
4,300.0	5.00	110.00	4,293.8	-49.9	137.2	-37.5	0.00	0.00	0.00
4,400.0	5.00	110.00	4,393.4	-52.9	145.4	-39.7	0.00	0.00	0.00
4,500.0	5.00	110.00	4,493.0	-55.9	153.6	-41.9	0.00	0.00	0.00
4,600.0	5.00	110.00	4,592.6	-58.9	161.8	-44.2	0.00	0.00	0.00
4,700.0	5.00	110.00	4,692.3	-61.9	169.9	-46.4	0.00	0.00	0.00
4,800.0	5.00	110.00	4,791.9	-64.8	178.1	-48.6	0.00	0.00	0.00
4,900.0	5.00	110.00	4,891.5	-67.8	186.3	-50.9	0.00	0.00	0.00
5,000.0	5.00	110.00	4,991.1	-70.8	194.5	-53.1	0.00	0.00	0.00
5,100.0	5.00	110.00	5,090.7	-73.8	202.7	-55.3	0.00	0.00	0.00
5,200.0	5.00	110.00	5,190.4	-76.8	210.9	-57.6	0.00	0.00	0.00
5,300.0	5.00	110.00	5,290.0	-79.7	219.1	-59.8	0.00	0.00	0.00
5,400.0	5.00	110.00	5,389.6	-82.7	227.3	-62.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #704H
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 #704H	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)
5,500.0	5.00	110.00	5,489.2	-85.7	235.5	-64.3	0.00	0.00	0.00
5,600.0	5.00	110.00	5,588.8	-88.7	243.7	-66.5	0.00	0.00	0.00
5,700.0	5.00	110.00	5,688.5	-91.7	251.8	-68.8	0.00	0.00	0.00
5,800.0	5.00	110.00	5,788.1	-94.6	260.0	-71.0	0.00	0.00	0.00
5,900.0	5.00	110.00	5,887.7	-97.6	268.2	-73.2	0.00	0.00	0.00
6,000.0	5.00	110.00	5,987.3	-100.6	276.4	-75.5	0.00	0.00	0.00
6,100.0	5.00	110.00	6,086.9	-103.6	284.6	-77.7	0.00	0.00	0.00
6,200.0	5.00	110.00	6,186.6	-106.6	292.8	-79.9	0.00	0.00	0.00
6,300.0	5.00	110.00	6,286.2	-109.6	301.0	-82.2	0.00	0.00	0.00
6,400.0	5.00	110.00	6,385.8	-112.5	309.2	-84.4	0.00	0.00	0.00
6,500.0	5.00	110.00	6,485.4	-115.5	317.4	-86.7	0.00	0.00	0.00
6,600.0	5.00	110.00	6,585.0	-118.5	325.6	-88.9	0.00	0.00	0.00
6,700.0	5.00	110.00	6,684.7	-121.5	333.7	-91.1	0.00	0.00	0.00
6,800.0	5.00	110.00	6,784.3	-124.5	341.9	-93.4	0.00	0.00	0.00
6,900.0	5.00	110.00	6,883.9	-127.4	350.1	-95.6	0.00	0.00	0.00
7,000.0	5.00	110.00	6,983.5	-130.4	358.3	-97.8	0.00	0.00	0.00
7,100.0	5.00	110.00	7,083.1	-133.4	366.5	-100.1	0.00	0.00	0.00
7,200.0	5.00	110.00	7,182.7	-136.4	374.7	-102.3	0.00	0.00	0.00
7,300.0	5.00	110.00	7,282.4	-139.4	382.9	-104.5	0.00	0.00	0.00
7,400.0	5.00	110.00	7,382.0	-142.3	391.1	-106.8	0.00	0.00	0.00
7,500.0	5.00	110.00	7,481.6	-145.3	399.3	-109.0	0.00	0.00	0.00
7,600.0	5.00	110.00	7,581.2	-148.3	407.5	-111.3	0.00	0.00	0.00
7,700.0	5.00	110.00	7,680.8	-151.3	415.6	-113.5	0.00	0.00	0.00
7,800.0	5.00	110.00	7,780.5	-154.3	423.8	-115.7	0.00	0.00	0.00
7,900.0	5.00	110.00	7,880.1	-157.2	432.0	-118.0	0.00	0.00	0.00
8,000.0	5.00	110.00	7,979.7	-160.2	440.2	-120.2	0.00	0.00	0.00
8,100.0	5.00	110.00	8,079.3	-163.2	448.4	-122.4	0.00	0.00	0.00
8,200.0	5.00	110.00	8,178.9	-166.2	456.6	-124.7	0.00	0.00	0.00
8,300.0	5.00	110.00	8,278.6	-169.2	464.8	-126.9	0.00	0.00	0.00
8,400.0	5.00	110.00	8,378.2	-172.1	473.0	-129.1	0.00	0.00	0.00
8,500.0	5.00	110.00	8,477.8	-175.1	481.2	-131.4	0.00	0.00	0.00
8,600.0	5.00	110.00	8,577.4	-178.1	489.4	-133.6	0.00	0.00	0.00
8,700.0	5.00	110.00	8,677.0	-181.1	497.5	-135.9	0.00	0.00	0.00
8,800.0	5.00	110.00	8,776.7	-184.1	505.7	-138.1	0.00	0.00	0.00
8,900.0	5.00	110.00	8,876.3	-187.1	513.9	-140.3	0.00	0.00	0.00
9,000.0	5.00	110.00	8,975.9	-190.0	522.1	-142.6	0.00	0.00	0.00
9,097.9	5.00	110.00	9,073.4	-193.0	530.1	-144.7	0.00	0.00	0.00
Start DLS 12.00 TFO -88.51									
9,100.0	5.01	107.08	9,075.5	-193.0	530.3	-144.8	12.00	0.62	-137.34
9,200.0	13.34	43.14	9,174.3	-185.8	542.4	-136.6	12.00	8.33	-63.94
9,300.0	24.86	32.38	9,268.7	-159.6	561.6	-108.7	12.00	11.52	-10.76
9,400.0	36.68	28.24	9,354.5	-115.4	587.1	-62.4	12.00	11.82	-4.14
9,500.0	48.58	25.93	9,427.9	-55.1	617.8	0.4	12.00	11.90	-2.32
9,600.0	60.51	24.34	9,485.8	18.5	652.2	76.8	12.00	11.93	-1.59

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #704H
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 #704H	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)
9,700.0	72.46	23.08	9,525.7	102.4	689.0	163.6	12.00	11.95	-1.25
9,800.0	84.41	21.99	9,545.7	192.7	726.4	256.9	12.00	11.95	-1.09
9,846.8	90.00	21.50	9,548.0	236.1	743.7	301.7	12.00	11.95	-1.05
Start DLS 4.00 TFO -90.00									
9,900.0	90.00	19.37	9,548.0	285.9	762.3	353.0	4.00	0.00	-4.00
10,000.0	90.00	15.37	9,548.0	381.4	792.2	450.7	4.00	0.00	-4.00
10,100.0	90.00	11.37	9,548.0	478.6	815.3	549.7	4.00	0.00	-4.00
10,200.0	90.00	7.37	9,548.0	577.3	831.6	649.4	4.00	0.00	-4.00
10,300.0	90.00	3.37	9,548.0	676.8	840.9	749.3	4.00	0.00	-4.00
10,391.8	90.00	359.70	9,548.0	768.6	843.4	841.0	4.00	0.00	-4.00
Start 3759.4 hold at 10391.8 MD									
10,400.0	90.00	359.70	9,548.0	776.8	843.3	849.1	0.00	0.00	0.00
10,500.0	90.00	359.70	9,548.0	876.8	842.8	948.7	0.00	0.00	0.00
10,600.0	90.00	359.70	9,548.0	976.8	842.3	1,048.2	0.00	0.00	0.00
10,700.0	90.00	359.70	9,548.0	1,076.8	841.8	1,147.8	0.00	0.00	0.00
10,800.0	90.00	359.70	9,548.0	1,176.8	841.2	1,247.3	0.00	0.00	0.00
10,900.0	90.00	359.70	9,548.0	1,276.8	840.7	1,346.9	0.00	0.00	0.00
11,000.0	90.00	359.70	9,548.0	1,376.8	840.2	1,446.4	0.00	0.00	0.00
11,100.0	90.00	359.70	9,548.0	1,476.8	839.7	1,546.0	0.00	0.00	0.00
11,200.0	90.00	359.70	9,548.0	1,576.8	839.1	1,645.5	0.00	0.00	0.00
11,300.0	90.00	359.70	9,548.0	1,676.8	838.6	1,745.1	0.00	0.00	0.00
11,400.0	90.00	359.70	9,548.0	1,776.8	838.1	1,844.6	0.00	0.00	0.00
11,500.0	90.00	359.70	9,548.0	1,876.8	837.6	1,944.2	0.00	0.00	0.00
11,600.0	90.00	359.70	9,548.0	1,976.8	837.0	2,043.7	0.00	0.00	0.00
11,700.0	90.00	359.70	9,548.0	2,076.7	836.5	2,143.3	0.00	0.00	0.00
11,800.0	90.00	359.70	9,548.0	2,176.7	836.0	2,242.8	0.00	0.00	0.00
11,900.0	90.00	359.70	9,548.0	2,276.7	835.5	2,342.4	0.00	0.00	0.00
12,000.0	90.00	359.70	9,548.0	2,376.7	834.9	2,441.9	0.00	0.00	0.00
12,100.0	90.00	359.70	9,548.0	2,476.7	834.4	2,541.5	0.00	0.00	0.00
12,200.0	90.00	359.70	9,548.0	2,576.7	833.9	2,641.0	0.00	0.00	0.00
12,300.0	90.00	359.70	9,548.0	2,676.7	833.3	2,740.6	0.00	0.00	0.00
12,400.0	90.00	359.70	9,548.0	2,776.7	832.8	2,840.1	0.00	0.00	0.00
12,500.0	90.00	359.70	9,548.0	2,876.7	832.3	2,939.7	0.00	0.00	0.00
12,600.0	90.00	359.70	9,548.0	2,976.7	831.8	3,039.2	0.00	0.00	0.00
12,700.0	90.00	359.70	9,548.0	3,076.7	831.2	3,138.8	0.00	0.00	0.00
12,800.0	90.00	359.70	9,548.0	3,176.7	830.7	3,238.3	0.00	0.00	0.00
12,900.0	90.00	359.70	9,548.0	3,276.7	830.2	3,337.9	0.00	0.00	0.00
13,000.0	90.00	359.70	9,548.0	3,376.7	829.7	3,437.4	0.00	0.00	0.00
13,100.0	90.00	359.70	9,548.0	3,476.7	829.1	3,537.0	0.00	0.00	0.00
13,200.0	90.00	359.70	9,548.0	3,576.7	828.6	3,636.5	0.00	0.00	0.00
13,300.0	90.00	359.70	9,548.0	3,676.7	828.1	3,736.1	0.00	0.00	0.00
13,400.0	90.00	359.70	9,548.0	3,776.7	827.6	3,835.6	0.00	0.00	0.00
13,500.0	90.00	359.70	9,548.0	3,876.7	827.0	3,935.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #704H
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 #704H	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)
13,600.0	90.00	359.70	9,548.0	3,976.7	826.5	4,034.7	0.00	0.00	0.00
13,700.0	90.00	359.70	9,548.0	4,076.7	826.0	4,134.3	0.00	0.00	0.00
13,800.0	90.00	359.70	9,548.0	4,176.7	825.4	4,233.8	0.00	0.00	0.00
13,900.0	90.00	359.70	9,548.0	4,276.7	824.9	4,333.4	0.00	0.00	0.00
14,000.0	90.00	359.70	9,548.0	4,376.7	824.4	4,432.9	0.00	0.00	0.00
14,100.0	90.00	359.70	9,548.0	4,476.7	823.9	4,532.5	0.00	0.00	0.00
14,151.2	90.00	359.70	9,548.0	4,527.9	823.6	4,583.4	0.00	0.00	0.00
Start DLS 2.00 TFO 89.96									
14,190.2	90.00	0.48	9,548.0	4,566.9	823.7	4,622.2	2.00	0.00	2.00
Start 5073.7 hold at 14190.2 MD									
14,200.0	90.00	0.48	9,548.0	4,576.7	823.7	4,632.1	0.00	0.00	0.00
14,300.0	90.00	0.48	9,548.0	4,676.7	824.6	4,731.7	0.00	0.00	0.00
14,400.0	90.00	0.48	9,548.0	4,776.7	825.4	4,831.4	0.00	0.00	0.00
14,500.0	90.00	0.48	9,548.0	4,876.7	826.2	4,931.1	0.00	0.00	0.00
14,600.0	90.00	0.48	9,548.0	4,976.7	827.1	5,030.7	0.00	0.00	0.00
14,700.0	90.00	0.48	9,548.0	5,076.7	827.9	5,130.4	0.00	0.00	0.00
14,800.0	90.00	0.48	9,548.0	5,176.7	828.7	5,230.1	0.00	0.00	0.00
14,900.0	90.00	0.48	9,548.0	5,276.7	829.6	5,329.7	0.00	0.00	0.00
15,000.0	90.00	0.48	9,548.0	5,376.7	830.4	5,429.4	0.00	0.00	0.00
15,100.0	90.00	0.48	9,548.0	5,476.7	831.2	5,529.1	0.00	0.00	0.00
15,200.0	90.00	0.48	9,548.0	5,576.7	832.1	5,628.8	0.00	0.00	0.00
15,300.0	90.00	0.48	9,548.0	5,676.7	832.9	5,728.4	0.00	0.00	0.00
15,400.0	90.00	0.48	9,548.0	5,776.7	833.7	5,828.1	0.00	0.00	0.00
15,500.0	90.00	0.48	9,548.0	5,876.7	834.6	5,927.8	0.00	0.00	0.00
15,600.0	90.00	0.48	9,548.0	5,976.7	835.4	6,027.4	0.00	0.00	0.00
15,700.0	90.00	0.48	9,548.0	6,076.7	836.3	6,127.1	0.00	0.00	0.00
15,800.0	90.00	0.48	9,548.0	6,176.7	837.1	6,226.8	0.00	0.00	0.00
15,900.0	90.00	0.48	9,548.0	6,276.7	837.9	6,326.5	0.00	0.00	0.00
16,000.0	90.00	0.48	9,548.0	6,376.7	838.8	6,426.1	0.00	0.00	0.00
16,100.0	90.00	0.48	9,548.0	6,476.6	839.6	6,525.8	0.00	0.00	0.00
16,200.0	90.00	0.48	9,548.0	6,576.6	840.4	6,625.5	0.00	0.00	0.00
16,300.0	90.00	0.48	9,548.0	6,676.6	841.3	6,725.1	0.00	0.00	0.00
16,400.0	90.00	0.48	9,548.0	6,776.6	842.1	6,824.8	0.00	0.00	0.00
16,500.0	90.00	0.48	9,548.0	6,876.6	842.9	6,924.5	0.00	0.00	0.00
16,600.0	90.00	0.48	9,548.0	6,976.6	843.8	7,024.1	0.00	0.00	0.00
16,700.0	90.00	0.48	9,548.0	7,076.6	844.6	7,123.8	0.00	0.00	0.00
16,800.0	90.00	0.48	9,548.0	7,176.6	845.4	7,223.5	0.00	0.00	0.00
16,900.0	90.00	0.48	9,548.0	7,276.6	846.3	7,323.2	0.00	0.00	0.00
17,000.0	90.00	0.48	9,548.0	7,376.6	847.1	7,422.8	0.00	0.00	0.00
17,100.0	90.00	0.48	9,548.0	7,476.6	847.9	7,522.5	0.00	0.00	0.00
17,200.0	90.00	0.48	9,548.0	7,576.6	848.8	7,622.2	0.00	0.00	0.00
17,300.0	90.00	0.48	9,548.0	7,676.6	849.6	7,721.8	0.00	0.00	0.00
17,400.0	90.00	0.48	9,548.0	7,776.6	850.4	7,821.5	0.00	0.00	0.00
17,500.0	90.00	0.48	9,548.0	7,876.6	851.3	7,921.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #704H
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 #704H	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)
17,600.0	90.00	0.48	9,548.0	7,976.6	852.1	8,020.8	0.00	0.00	0.00
17,700.0	90.00	0.48	9,548.0	8,076.6	852.9	8,120.5	0.00	0.00	0.00
17,800.0	90.00	0.48	9,548.0	8,176.6	853.8	8,220.2	0.00	0.00	0.00
17,900.0	90.00	0.48	9,548.0	8,276.6	854.6	8,319.9	0.00	0.00	0.00
18,000.0	90.00	0.48	9,548.0	8,376.6	855.4	8,419.5	0.00	0.00	0.00
18,100.0	90.00	0.48	9,548.0	8,476.6	856.3	8,519.2	0.00	0.00	0.00
18,200.0	90.00	0.48	9,548.0	8,576.6	857.1	8,618.9	0.00	0.00	0.00
18,300.0	90.00	0.48	9,548.0	8,676.6	857.9	8,718.5	0.00	0.00	0.00
18,400.0	90.00	0.48	9,548.0	8,776.6	858.8	8,818.2	0.00	0.00	0.00
18,500.0	90.00	0.48	9,548.0	8,876.6	859.6	8,917.9	0.00	0.00	0.00
18,600.0	90.00	0.48	9,548.0	8,976.6	860.4	9,017.5	0.00	0.00	0.00
18,700.0	90.00	0.48	9,548.0	9,076.6	861.3	9,117.2	0.00	0.00	0.00
18,800.0	90.00	0.48	9,548.0	9,176.6	862.1	9,216.9	0.00	0.00	0.00
18,900.0	90.00	0.48	9,548.0	9,276.6	862.9	9,316.6	0.00	0.00	0.00
19,000.0	90.00	0.48	9,548.0	9,376.5	863.8	9,416.2	0.00	0.00	0.00
19,100.0	90.00	0.48	9,548.0	9,476.5	864.6	9,515.9	0.00	0.00	0.00
19,200.0	90.00	0.48	9,548.0	9,576.5	865.4	9,615.6	0.00	0.00	0.00
19,263.8	90.00	0.48	9,548.0	9,640.4	866.0	9,679.2	0.00	0.00	0.00
TD at 19263.8									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
T1 (DOLORES ST CC - hit/miss target - Shape - plan hits target center - Rectangle (sides W100.0 H4,915.0 D20.0)	0.00	179.70	9,548.0	4,527.9	823.6	392,510.26	585,007.26	32° 4' 43.785 N	104° 3' 31.957 W
PBHL (DOLORES ST - plan hits target center - Rectangle (sides W100.0 H5,111.0 D20.0)	0.00	180.48	9,548.0	9,640.4	866.0	397,622.72	585,049.63	32° 5' 34.379 N	104° 3' 31.314 W
FTP (DOLORES ST C - plan misses target center by 421.5usft at 9455.8usft MD (9397.2 TVD, -83.5 N, 603.7 E) - Circle (radius 50.0)	0.00	0.00	9,548.0	-391.8	848.4	387,590.57	585,032.10	32° 3' 55.096 N	104° 3' 31.814 W
LTP (DOLORES ST C - plan hits target center - Point	0.00	0.00	9,548.0	9,510.3	864.8	397,492.70	585,048.51	32° 5' 33.092 N	104° 3' 31.331 W

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well DOLORES ST COM #704H
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 #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

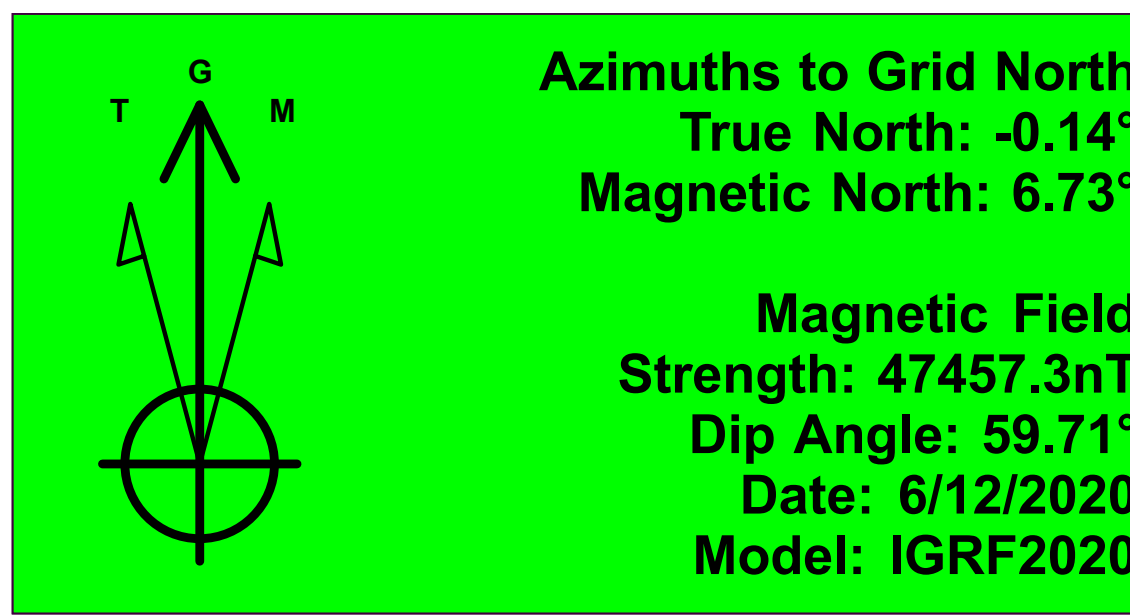
Plan Annotations

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	-4	10	Start 6347.9 hold at 2750.0 MD
9098	9073	-193	530	Start DLS 12.00 TFO -88.51
9847	9548	236	744	Start DLS 4.00 TFO -90.00
10,392	9548	769	843	Start 3759.4 hold at 10391.8 MD
14,151	9548	4528	824	Start DLS 2.00 TFO 89.96
14,190	9548	4567	824	Start 5073.7 hold at 14190.2 MD
19,264	9548	9640	866	TD at 19263.8

Checked By: _____ Approved By: _____ Date: _____

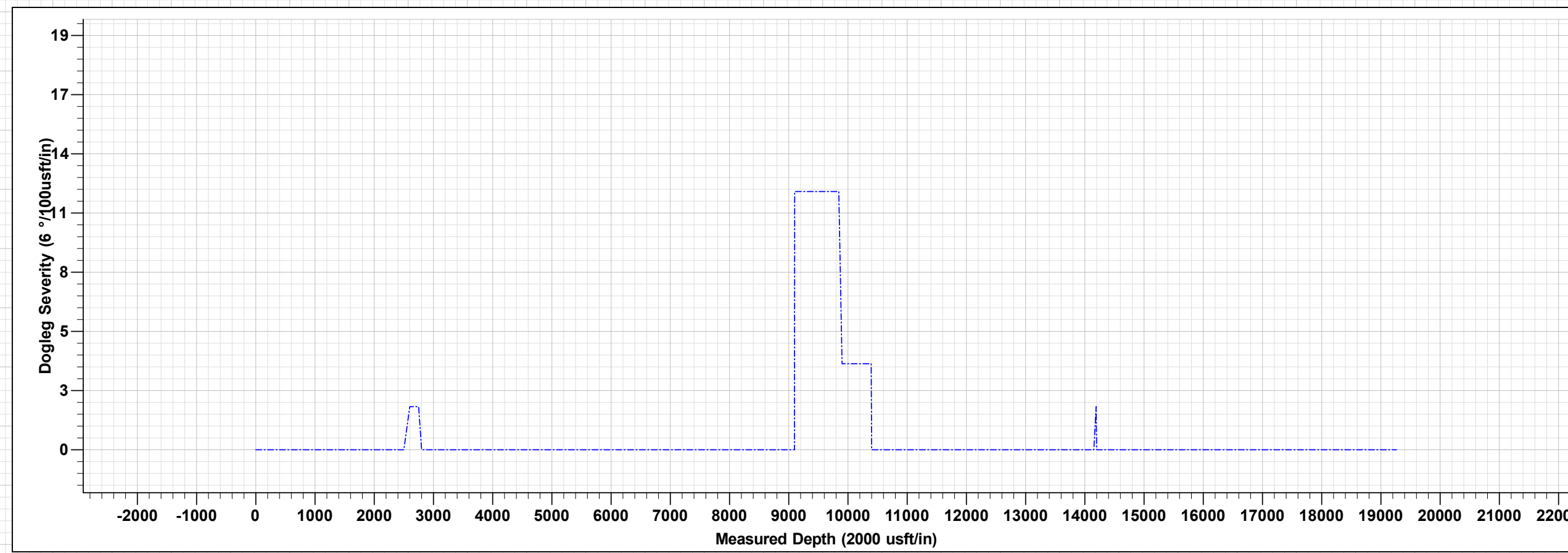
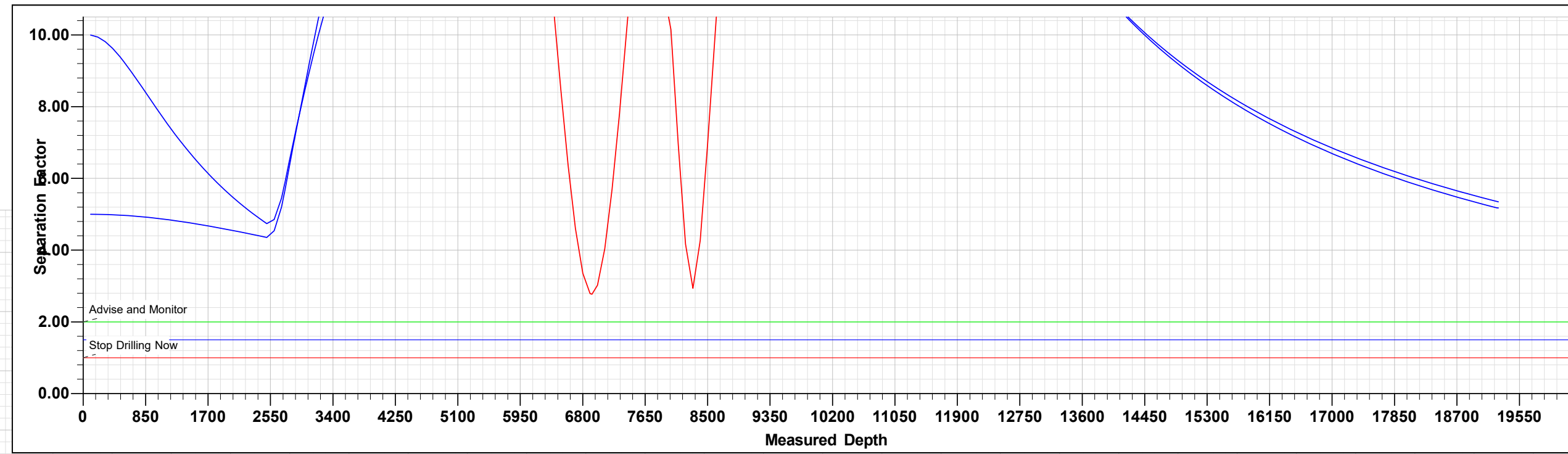


Project: ATLAS PROSPECT (NM-E)
Site: DOLORES STATE PROJECT (ATLAS 2628)
Well: DOLORES ST COM #704H
Wellbore: OWB
Design: PWP1
GL: 2954.0
KB=30' @ 2995.0usft (TBD)



WELL DETAILS: DOLORES ST COM #704H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387982.36	584183.66	32° 3' 58.995 N	104° 3' 41.663 W

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (DOLORES ST COM #704H)P548.0	-391.8	848.4	387590.57	585032.10	32° 3' 55.096 N	104° 3' 31.814 W	
LTP (DOLORES ST COM #704H)P548.0	9510.3	864.8	397492.70	585048.51	32° 5' 33.092 N	104° 3' 31.331 W	
PBHL (DOLORES ST COM #704H)P548.0	9640.4	866.0	397622.72	585049.63	32° 5' 34.379 N	104° 3' 31.314 W	
T1 (DOLORES ST COM #704H) 9548.0	4527.9	823.6	392510.26	585007.26	32° 4' 43.785 N	104° 3' 31.957 W	



DOLORES ST COM #704H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	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	110.00	2749.7	-3.7	10.2	2.00	110.00	-2.8	Start 6347.9 hold at 2750.0 MD
9097.9	5.00	110.00	9073.4	-193.0	530.1	0.00	0.00	-144.7	Start DLS 12.00 TFO -88.51
9846.8	90.00	21.50	9548.0	236.1	743.7	12.00	-88.51	301.7	Start DLS 4.00 TFO -90.00
10391.8	90.00	359.70	9548.0	768.6	843.4	4.00	-90.00	841.0	Start 3759.4 hold at 10391.8 MD
14151.2	90.00	359.70	9548.0	4527.9	823.6	0.00	0.00	4583.4	Start DLS 2.00 TFO 89.96
14190.2	90.00	0.48	9548.0	4566.9	823.7	2.00	89.96	4622.2	Start 5073.7 hold at 14190.2 MD
19263.8	90.00	0.48	9548.0	9640.4	866.0	0.00	0.00	9679.2	TD at 19263.8

