

Well Name: WILD SALSA FED COM	Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633	County or Parish/State: LEA / NM
Well Number: 95H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0063228, NMLC063228	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547633	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Notice of Intent

Type of Submission: Notice of Intent

Type of Action APD Change

Date Sundry Submitted: 02/03/2021

Time Sundry Submitted: 02:53

Date proposed operation will begin: 03/04/2021

Procedure Description: Titus Oil & Gas Production, LLC respectfully requests the following changes to the approved APD: Name Change from Wild Salsa 24-13 Fed 215H to Wild Salsa Fed Com 095H; Target Change from Second Bone Spring Sand to Upper Avalon Shale; Target Depth change from 10,820' TVD & 21,581 MD to 9850' TVD & 20,550' MD; Lateral Shift from 1320' FEL to 990' FEL; Corrected Assigned Acres from 600ac to 640ac; Updates to C-102, Drilling Plan, Directional Plans, H2S Contingency Plan (name/location only), Gas Capture Plan, Flex Hose Certs.

Application

Well Name: WILD SALSA FED COM	Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633	County or Parish/State: LEA / NM
Well Number: 95H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0063228, NMLC063228	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547633	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Section 1 - General

APD ID: 10400046206	Tie to previous NOS? N	Submission Date: 08/22/2019
BLM Office: CARLSBAD	User: RYAN DELONG	Title: Regulatory Manager
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMLC0063228	Lease Acres:	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? Y		
Permitting Agent? NO	APD Operator: TITUS OIL AND GAS PRODUCTION LLC	
Operator letter of designation:		

Operator Info

Operator Organization Name: TITUS OIL AND GAS PRODUCTION LLC

Operator Address: 420 Throckmorton St., Suite 1150 **Zip:** 76102

Operator PO Box:

Operator City: Fort Worth **State:** TX

Operator Phone: (817)852-6358

Operator Internet Address: rdelong@titusoil.com

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: WILD SALSA FED COM	Well Number: 095H	Well API Number: 3002547633
Field/Pool or Exploratory? Field and Pool	Field Name: DIAMONDTAIL	Pool Name: BONE SPRING
Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL		
Is the proposed well in a Helium production area? N	Use Existing Well Pad? Y	New surface disturbance? N
Type of Well Pad: MULTIPLE WELL	Multiple Well Pad Name: Wild Salsa	Number: 1
Well Class: HORIZONTAL	Number of Legs: 1	
Well Work Type: Drill		
Well Type: OIL WELL		
Describe Well Type:		

Well Name: WILD SALSA FED COM	Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633	County or Parish/State: LEA / NM
Well Number: 95H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0063228, NMLC063228	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547633	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town:

Distance to nearest well: 25 FT

Distance to lease line: 653 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: WILD_SALSA_FED_COM_095H_C_102_20210203144835.pdf

Well work start Date: 03/03/2020

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	653	FNL	706	FEL	23S	32E	25	Tract A	32.2812092	-103.6220633	LEA	NEW MEXICO	NEW MEXICO	F	NMLC063228	3722	0	0	Y
KOP Leg #1	400	FNL	992	FEL	23S	32E	25	Tract A	32.2819018	-103.6229862	LEA	NEW MEXICO	NEW MEXICO	F	NMLC063228	-5594	9326	9316	Y
PPP Leg #1-1	0	FSL	991	FEL	23S	32E	13	Tract P	32.29753	-103.622979	LEA	NEW MEXICO	NEW MEXICO	F	NMNM053634	-6099	15285	9821	Y
EXIT Leg #1	1328	FNL	1320	FEL	23S	32E	13	Tract A	32.3083795	-103.6240463	LEA	NEW MEXICO	NEW MEXICO	F	NMNM053634	-7098	20337	10820	Y

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
BHL Leg #1	1328	FNL	1320	FEL	23S	32E	13	Tract A	32.3083795	-103.6240463	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0536344	-7098	20337	10820	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1538732	QUATERNARY	3722	0	0	ALLUVIUM	USEABLE WATER	N
1538733	RUSTLER	2407	1315	1315	ANHYDRITE	USEABLE WATER	N
1538734	SALADO	2372	1350	1350	SALT	NONE	N
1538735	BASE OF SALT	-1095	4817	4817	SALT	NONE	N
1538736	LAMAR	-1293	5015	5015	LIMESTONE	NONE	N
1538737	DELAWARE	-1375	5097	5097	SANDSTONE, SHALE, SILTSTONE	NONE	N
1538741	BONE SPRING LIME	-5140	8862	8862	LIMESTONE	NATURAL GAS, OIL	N
1539588	UPPER AVALON SHALE	-5343	9065	9065	SHALE	NATURAL GAS, OIL	Y
1538742	BONE SPRING 1ST	-6280	10002	10002	SANDSTONE	NATURAL GAS, OIL	N
1538743	BONE SPRING 2ND	-6900	10622	10689	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 5040

Equipment: A multibowl wellhead is being used. The BOP will be tested per Onshore Order 2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See specs and hydrostatic test chart attached in part 8 as "Flex Hose Certifications."

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke.

Choke Diagram Attachment:

2M_Choke_Diagram_20190821130054.pdf

BOP Diagram Attachment:

2M_BOP_Diagram_20190821130059.pdf

Pressure Rating (PSI): 3M

Rating Depth: 9850

Equipment: A multibowl wellhead is being used. The BOP will be tested per Onshore Order 2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See specs and hydrostatic test chart attached in part 8 as "Flex Hose Certifications."

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke.

Choke Diagram Attachment:

3M_Choke_Diagram_20190821130135.pdf

BOP Diagram Attachment:

3M_BOP_Diagram_20190821130142.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1340	0	1340	3722	2382	1340	J-55	54.5	ST&C	1.84	1.26	DRY	7.04	DRY	7.04
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5040	0	5040	3721	-1318	5040	J-55	40	LT&C	1	1.03	DRY	2.58	DRY	2.58
3	PRODUCTION	8.75	5.5	NEW	API	N	0	20550	0	9850	3721	-6128	20550	P-110	17	LT&C	1.55	2.78	DRY	2.66	DRY	2.66

Casing Attachments

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__shallow__WILD_SALSA_20190821130446.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__shallow__WILD_SALSA_20190821130700.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__shallow__WILD_SALSA_20190821131012.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
-------------	-----------	------------------	--------	-----------	--------------	-------	---------	-------	---------	-------------	-----------

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1340	610	1.75	13.5	1067.5	50	Class C	4% Gel, 1% CaCl2
SURFACE	Tail		0	1340	250	1.34	14.8	335	50	Class C	2% CaCl2
INTERMEDIATE	Lead		0	5040	950	2	12.7	1900	50	35:65:6 C Blend	N/A
INTERMEDIATE	Tail		0	5040	250	1.34	14.8	335	50	Class C	N/A
PRODUCTION	Lead		0	20550	670	2.5	11.9	1675	25	50:50:10 H Blend	N/A
PRODUCTION	Tail		0	20550	2850	1.24	14.4	3534	40	50:50:2 H Blend	N/A

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1340	OTHER : FRESH WATER GEL	8.6	8.8							
1340	5040	OTHER : SATURATED BRINE	10	10.2							
5040	9850	OTHER : CUT BRINE	8.6	9.4							

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole). Logs run will be stated in the completion report and submitted to the BLM.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4815

Anticipated Surface Pressure: 2434

Anticipated Bottom Hole Temperature(F): 155

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Wild_Salsa_Fed_Com_095H_H2S_Plan_20210202155219.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Other proposed operations facets description:

- Flex Hose Certifications
- Gas Capture Plan
- Drilling Plan APD

Other proposed operations facets attachment:

- Choke_Hose_SN_64409_20210202155448.pdf
- Wild_Salsa_Fed_Com_95H__APD_Template__NON_Reef__DLWR_BSS__20210202155455.pdf
- Gas_Capture_Plan_V4_WILD_SALSA_20210202155508.pdf

Other Variance attachment:

SUPO

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Vicinity_and_Existing_Roads_WILD_SALSA_20190814085608.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

New_Roads_WILD_SALSA_20190814085630.pdf

New road type: LOCAL,RESOURCE

Length: 449.9 Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: The access road will be constructed to drain properly, preventing soil and caliche erosion. The road bed features 6" of 1" diameter caliche, crowned at 2% and shoulders with a 3:1 cut/fill slope. Adequately sized CMP culverts may be used on an as-needed basis to move runoff water under and away from access roads.

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: GRAVEL

Access topsoil source: OFFSITE

Access surfacing type description:

Access onsite topsoil source depth:

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Offsite topsoil source description: State pit located at 32.23463, -103,61045

Onsite topsoil removal process:

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Culverts and other methods of managing drainage may be used on an as-needed basis to direct water flow and prevent erosion.

Road Drainage Control Structures (DCS) description: CMP culverts as needed

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Radius_Map_WILD_SALSA_20190814085719.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: This well will utilize the Wild Salsa 24-13 central tank battery located in Section 25, T23S, R32E, Lea County, NM. The survey for the facility pad has been included with "Other SUPO Attachments." Final facility design will be submitted via sundry notice once complete.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RECYCLED

Water source use type: SURFACE CASING INTERMEDIATE/PRODUCTION CASING

Source latitude: 32.28337

Source longitude: -103.6173

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 22728

Source volume (acre-feet): 2.92948229

Source volume (gal): 954576

Water source type: RECYCLED

Water source use type: STIMULATION

Source latitude: 32.28337

Source longitude: -103.6173

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 207200

Source volume (acre-feet): 26.70664956

Source volume (gal): 8702400

Water source type: RECYCLED

Water source use type: STIMULATION

Source latitude: 32.28337

Source longitude: -103.6173

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 207200

Source volume (acre-feet): 26.70664956

Source volume (gal): 8702400

Water source and transportation map:

Water_Source_WILD_SALSA_20190814082850.pdf

Water source comments: Water source transportation "pipeline" will be filed with BLM as a temporary water line.

New water well? N

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: This location will be turned over, using as much material on location as possible. Additional material needed will be trucked from a local caliche pit located at 32.234634, -103.610458.

Construction Materials source location attachment:

Caliche_Source_WILD_SALSA_20190814082906.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill Cuttings

Amount of waste: 22728 barrels

Waste disposal frequency : One Time Only

Safe containment description: Drill cutting swill be properly contained in steel tanks (20 yard roll off bins)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: PRIVATE

Disposal type description:

Disposal location description: R360 Facility

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: PRIVATE

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage and Trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: PRIVATE

Disposal type description:

Disposal location description: Lea Land in Hobbs, Waste Management in Carlsbad, or another commercial facility.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.) Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.) Cuttings area volume (cu. yd.)

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Well_Pad_Plat_WILD_SALSA_20190814085800.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Wild Salsa

Multiple Well Pad Number: 1

Recontouring attachment:

Drainage/Erosion control construction: All areas disturbed shall be reclaimed as early and as closely as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

Drainage/Erosion control reclamation: Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability, and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season.

Well pad proposed disturbance (acres): 13.69

Well pad interim reclamation (acres): 3.37

Well pad long term disturbance (acres): 10.32

Road proposed disturbance (acres): 0.3

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0.3

Powerline proposed disturbance (acres): 0

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 3.18

Other interim reclamation (acres): 0

Other long term disturbance (acres): 3.18

Total proposed disturbance: 17.17

Total interim reclamation: 3.37

Total long term disturbance: 13.8

Disturbance Comments: "Other Proposed Disturbance (acres)" represents the facility pad disturbance

Reconstruction method: Operator will use Best Management Practices to mechanically recontour to obtain the desired outcome.

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and recontoured as to achieve erosion control, long-term stability, and preservation of surface water flow patterns.

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-terms stability, and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Native plant and grass species.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Native plant and grass species.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Native plant and grass species.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Native plant and grass species.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
-----------	-------------

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Weeds will be treated/maintained on an as-needed basis

Weed treatment plan attachment:

Monitoring plan description: Location will be monitored on an as-needed basis

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: WILD SALSA FED COM	Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633	County or Parish/State: LEA / NM
Well Number: 95H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0063228, NMLC063228	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547633	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: Facility Pad

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: The Wild Salsa pad is designed to be constructed in one, two, or three phases. In one phase the entire pad would be constructed at a single time. In two phases, the central portion of the pad would be constructed first, with the east and west extensions being added at a later date. In three stages, the central pad would be constructed first, then followed by east or west extensions as desirable.

Use a previously conducted onsite? Y

Previous Onsite information: The Wild Salsa onsite took place 6/18/2019.

Other SUPO Attachment

20190816_R4009_WILD_SALSA_24_13_FED_REV0_CUT_AND_FILL_20190816193617.pdf

Tank_Battery_Plat_WILD_SALSA_20190814085826.pdf

PWD

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Operator Certification

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: RYAN DELONG

Signed on: 02/03/2021

Title: Regulatory Manager

Street Address: 420 Throckmorton Street, Suite 1150

City: Fort Worth

State: TX

Zip: 76102

Phone: (817)852-6370

Email address: rdelong@titusoil.com

Field Representative

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

CONFIDENTIAL

Well Name: WILD SALSA FED COM

Well Location: T23S / R32E / SEC 25 / TR A / 32.2812092 / -103.6220633

County or Parish/State: LEA / NM

Well Number: 95H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0063228, NMLC063228

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547633

Well Status: Approved Application for Permit to Drill

Operator: TITUS OIL AND GAS PRODUCTION LLC

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: DELONG

Signed on: FEB 03, 2021 02:53 PM

Name: TITUS OIL AND GAS PRODUCTION LLC

Title: Regulatory Manager

Street Address: 420 Throckmorton St., Suite 1150

City: Fort Worth

State: TX

Phone: (817) 852-6358

Email address: rdelong@titusoil.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 03/08/2021

Signature: Chris Walls

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

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
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 30-025-48633		² Pool Code 98135		³ Pool Name WC-025 G-09 S243310P:UPPER WOLFCAMP	
⁴ Property Code 328891		⁵ Property Name APOLLO STATE COM			⁶ Well Number 206H
⁷ OGRID No. #372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3543'

¹⁰Surface Location

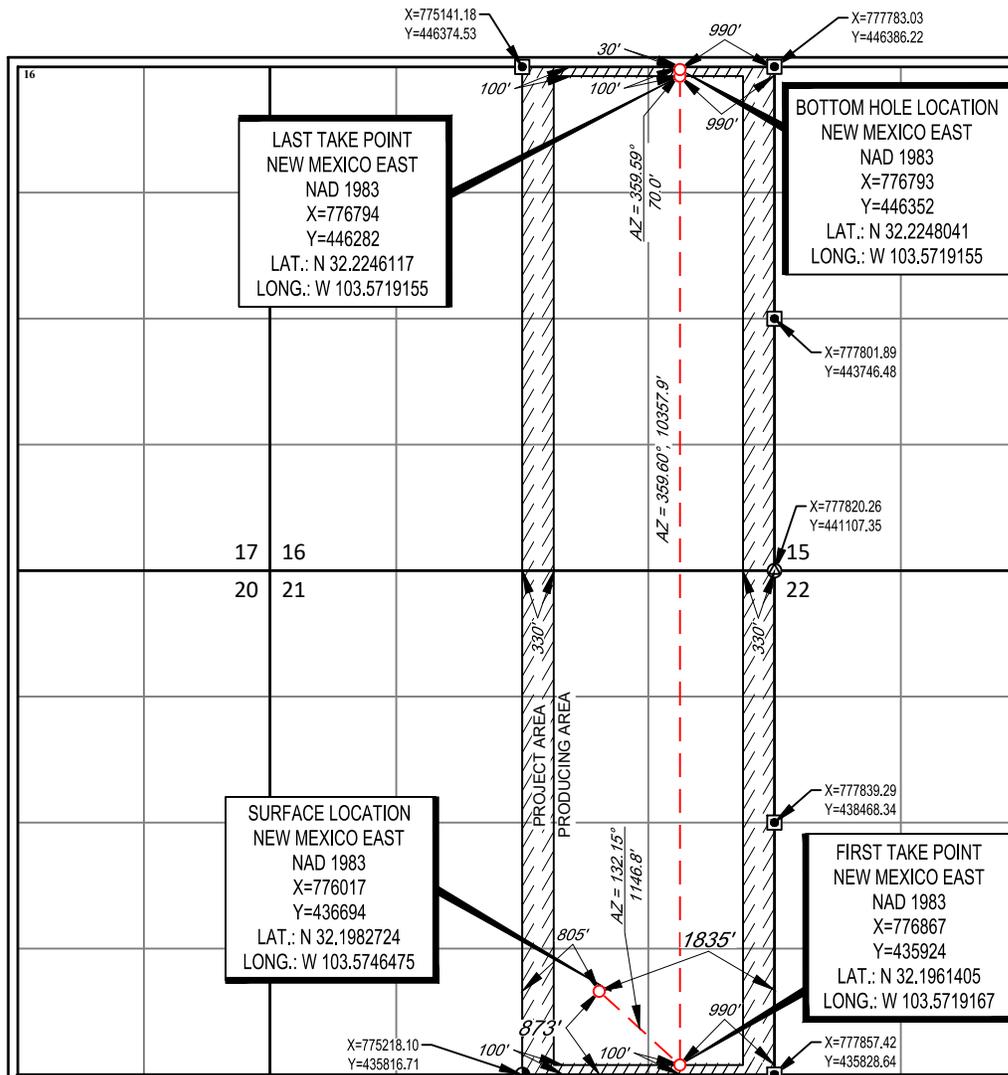
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	21	24-S	33-E	-	873'	SOUTH	1835'	EAST	LEA

¹¹Bottom 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
B	16	24-S	33-E	-	30'	NORTH	990'	EAST	LEA

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.



¹⁷OPERATOR 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.

Bill Ramsey 5/17/2021
Signature Date

Bill Ramsey
Printed Name

bramsey@taprk.com
E-mail Address

¹⁸SURVEYOR 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 to the best of my belief.

04/01/2021
Date of Survey

Signature and Seal of Professional Surveyor



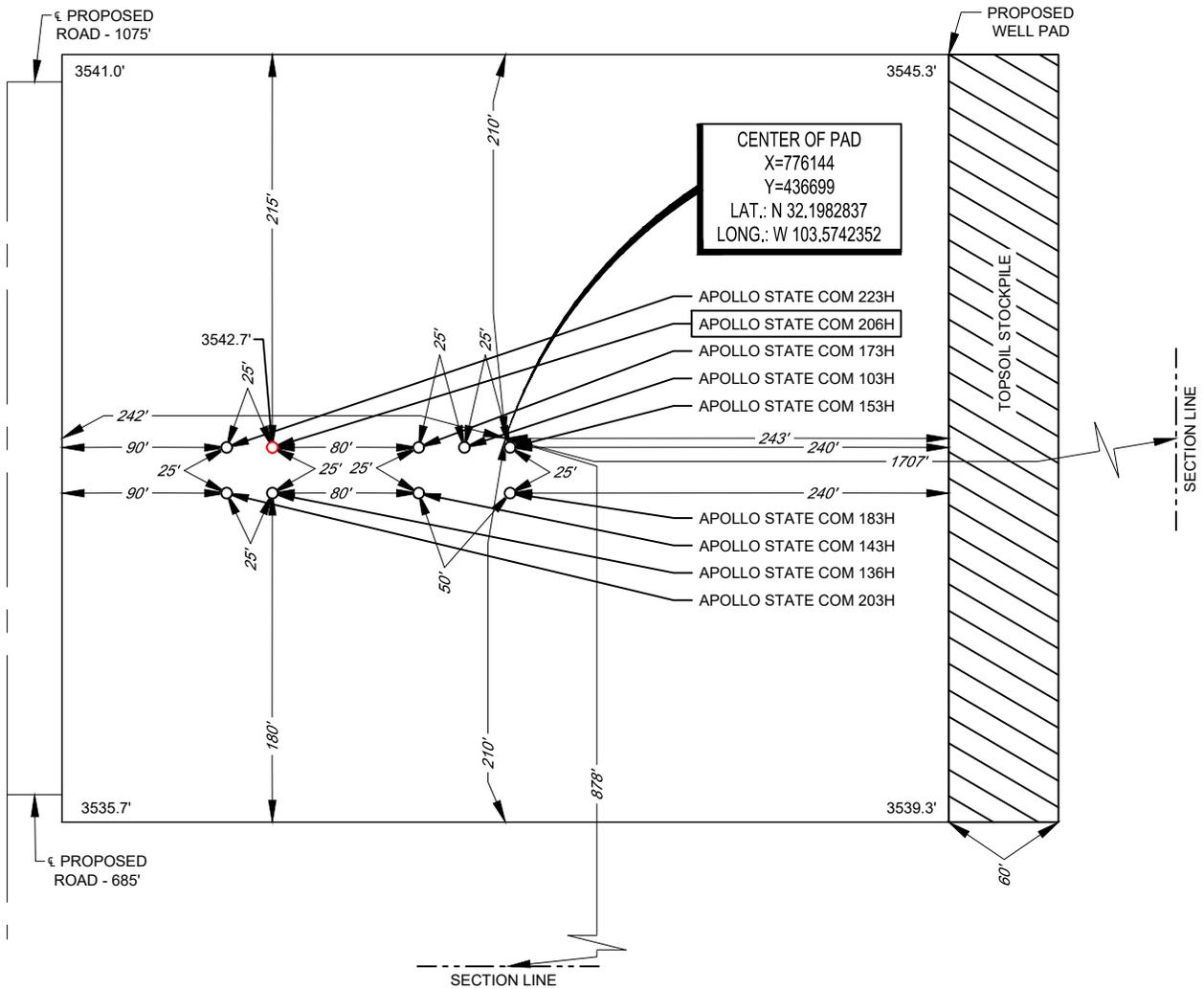
Certificate Number

EXHIBIT 2B



SECTION 21, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: APOLLO STATE COM 206H
206H LATITUDE N 32.1982724 206H LONGITUDE W 103.5746475

CENTER OF PAD IS 878' FSL & 1707' FEL



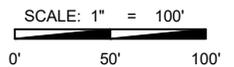
Angel M. Baeza, P.S. No. 25116

May 13, 2021

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET, ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Apollo State Com 206

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC	Mud
Surf	17.5	13.375	54.5	1220	1280	0	Fresh Water
Int 1	9.875	7.625	29.7	9000	2562	0	Diesel Brine
	8.75	7.625	29.7	11890			Diesel Brine
Prod	6.75	5.5	20	22786	700	11690	OBM

Intermediate mud system will be the direct brine emulsion fluid (brine based with diesel emulsified in it). Tap Rock requests the option of switching to a two stage cement job on the 7-5/8" intermediate casing string with the first stage lead and tail being pumped conventionally with the calculated top of cement to surface. If necessary, the second stage will be performed as a bradenhead squeeze with planned cement from the Brushy Canyon (anticipated loss zone) to surface if cement is not circulated to surface during the first stage. Additionally, a top out consisting of Class C cement will be executed as needed after the first two stages. Tap Rock also requests the option to run a DV tool, the depth will be adjusted depending on current hole conditions. Cement volumes will be adjusted accordingly. The DV tool will be set a minimum of 50' below the previous casing shoe and a maximum of 200' above the current casing shoe. If cement is not circulated to surface on the 1st stage job, the 2nd stage will be pumped as planned. The DVT set depth will be between 5,000-6,000'.



Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Apollo State Com) Sec-21_T-24-S_R-33-E
Apollo State Com #206H

OWB

Plan: Plan #1

Standard Planning Report

19 May, 2021





Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Apollo State Com) Sec-21_T-24-S_R-33-E				
Site Position:	Northing:	436,694.00 usft	Latitude:	32° 11' 53.775 N	
From: Map	Easting:	776,122.00 usft	Longitude:	103° 34' 27.504 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	Apollo State Com #206H					
Well Position	+N/-S	0.0 usft	Northing:	436,694.00 usft	Latitude:	32° 11' 53.783 N
	+E/-W	-105.0 usft	Easting:	776,017.00 usft	Longitude:	103° 34' 28.726 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,543.0 usft	

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/03/21	6.54	59.99	47,531.73569867

Design	Plan #1			
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	359.59

Plan Survey Tool Program	Date	05/19/21			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,796.1 Plan #1 (OWB)	MWD	OWSG MWD - Standard	

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00		
2,449.9	9.50	133.94	2,445.5	-54.5	56.6	1.00	1.00	0.00	133.94		
8,658.9	9.50	133.94	8,569.5	-765.5	794.4	0.00	0.00	0.00	0.00		
9,608.8	0.00	0.01	9,515.0	-820.0	851.0	1.00	-1.00	0.00	180.00		
11,990.8	0.00	0.01	11,897.0	-820.0	851.0	0.00	0.00	0.00	0.01		
12,890.8	90.00	359.59	12,470.0	-247.1	846.9	10.00	10.00	-0.05	359.59		
22,796.1	90.00	359.59	12,470.0	9,658.0	776.0	0.00	0.00	0.00	0.00	PBHL (Apollo State)	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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
1,172.0	0.00	0.00	1,172.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
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
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	1.00	133.94	1,600.0	-0.6	0.6	-0.6	1.00	1.00	0.00
1,663.0	1.63	133.94	1,663.0	-1.6	1.7	-1.6	1.00	1.00	0.00
Top Salt									
1,700.0	2.00	133.94	1,700.0	-2.4	2.5	-2.4	1.00	1.00	0.00
1,800.0	3.00	133.94	1,799.9	-5.4	5.7	-5.5	1.00	1.00	0.00
1,900.0	4.00	133.94	1,899.7	-9.7	10.1	-9.8	1.00	1.00	0.00
2,000.0	5.00	133.94	1,999.4	-15.1	15.7	-15.2	1.00	1.00	0.00
2,100.0	6.00	133.94	2,098.9	-21.8	22.6	-21.9	1.00	1.00	0.00
2,200.0	7.00	133.94	2,198.3	-29.6	30.8	-29.9	1.00	1.00	0.00
2,300.0	8.00	133.94	2,297.4	-38.7	40.2	-39.0	1.00	1.00	0.00
2,400.0	9.00	133.94	2,396.3	-48.9	50.8	-49.3	1.00	1.00	0.00
2,449.9	9.50	133.94	2,445.5	-54.5	56.6	-54.9	1.00	1.00	0.00
2,500.0	9.50	133.94	2,495.0	-60.2	62.5	-60.7	0.00	0.00	0.00
2,600.0	9.50	133.94	2,593.6	-71.7	74.4	-72.2	0.00	0.00	0.00
2,700.0	9.50	133.94	2,692.2	-83.1	86.3	-83.8	0.00	0.00	0.00
2,800.0	9.50	133.94	2,790.9	-94.6	98.2	-95.3	0.00	0.00	0.00
2,900.0	9.50	133.94	2,889.5	-106.1	110.1	-106.8	0.00	0.00	0.00
3,000.0	9.50	133.94	2,988.1	-117.5	121.9	-118.4	0.00	0.00	0.00
3,100.0	9.50	133.94	3,086.7	-129.0	133.8	-129.9	0.00	0.00	0.00
3,200.0	9.50	133.94	3,185.4	-140.4	145.7	-141.4	0.00	0.00	0.00
3,300.0	9.50	133.94	3,284.0	-151.9	157.6	-153.0	0.00	0.00	0.00
3,400.0	9.50	133.94	3,382.6	-163.3	169.5	-164.5	0.00	0.00	0.00
3,500.0	9.50	133.94	3,481.3	-174.8	181.4	-176.0	0.00	0.00	0.00
3,600.0	9.50	133.94	3,579.9	-186.2	193.2	-187.6	0.00	0.00	0.00
3,700.0	9.50	133.94	3,678.5	-197.7	205.1	-199.1	0.00	0.00	0.00
3,800.0	9.50	133.94	3,777.1	-209.1	217.0	-210.7	0.00	0.00	0.00
3,900.0	9.50	133.94	3,875.8	-220.6	228.9	-222.2	0.00	0.00	0.00
4,000.0	9.50	133.94	3,974.4	-232.0	240.8	-233.7	0.00	0.00	0.00
4,100.0	9.50	133.94	4,073.0	-243.5	252.7	-245.3	0.00	0.00	0.00
4,200.0	9.50	133.94	4,171.7	-254.9	264.5	-256.8	0.00	0.00	0.00
4,300.0	9.50	133.94	4,270.3	-266.4	276.4	-268.3	0.00	0.00	0.00
4,400.0	9.50	133.94	4,368.9	-277.8	288.3	-279.9	0.00	0.00	0.00
4,500.0	9.50	133.94	4,467.5	-289.3	300.2	-291.4	0.00	0.00	0.00
4,600.0	9.50	133.94	4,566.2	-300.7	312.1	-302.9	0.00	0.00	0.00
4,700.0	9.50	133.94	4,664.8	-312.2	324.0	-314.5	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)	
4,800.0	9.50	133.94	4,763.4	-323.6	335.8	-326.0	0.00	0.00	0.00	
4,900.0	9.50	133.94	4,862.1	-335.1	347.7	-337.5	0.00	0.00	0.00	
4,956.7	9.50	133.94	4,918.0	-341.6	354.5	-344.1	0.00	0.00	0.00	
Base Salt										
5,000.0	9.50	133.94	4,960.7	-346.5	359.6	-349.1	0.00	0.00	0.00	
5,100.0	9.50	133.94	5,059.3	-358.0	371.5	-360.6	0.00	0.00	0.00	
5,178.8	9.50	133.94	5,137.0	-367.0	380.9	-369.7	0.00	0.00	0.00	
Delaware Mountain Gp										
5,200.0	9.50	133.94	5,157.9	-369.4	383.4	-372.2	0.00	0.00	0.00	
5,200.1	9.50	133.94	5,158.0	-369.4	383.4	-372.2	0.00	0.00	0.00	
Lamar										
5,241.6	9.50	133.94	5,199.0	-374.2	388.3	-377.0	0.00	0.00	0.00	
Bell Canyon										
5,274.1	9.50	133.94	5,231.0	-377.9	392.2	-380.7	0.00	0.00	0.00	
Ramsey Sand										
5,300.0	9.50	133.94	5,256.6	-380.9	395.3	-383.7	0.00	0.00	0.00	
5,400.0	9.50	133.94	5,355.2	-392.3	407.2	-395.2	0.00	0.00	0.00	
5,500.0	9.50	133.94	5,453.8	-403.8	419.0	-406.8	0.00	0.00	0.00	
5,600.0	9.50	133.94	5,552.5	-415.2	430.9	-418.3	0.00	0.00	0.00	
5,700.0	9.50	133.94	5,651.1	-426.7	442.8	-429.8	0.00	0.00	0.00	
5,800.0	9.50	133.94	5,749.7	-438.1	454.7	-441.4	0.00	0.00	0.00	
5,900.0	9.50	133.94	5,848.4	-449.6	466.6	-452.9	0.00	0.00	0.00	
6,000.0	9.50	133.94	5,947.0	-461.0	478.5	-464.4	0.00	0.00	0.00	
6,100.0	9.50	133.94	6,045.6	-472.5	490.3	-476.0	0.00	0.00	0.00	
6,200.0	9.50	133.94	6,144.2	-483.9	502.2	-487.5	0.00	0.00	0.00	
6,238.3	9.50	133.94	6,182.0	-488.3	506.8	-491.9	0.00	0.00	0.00	
Cherry Canyon										
6,300.0	9.50	133.94	6,242.9	-495.4	514.1	-499.0	0.00	0.00	0.00	
6,400.0	9.50	133.94	6,341.5	-506.8	526.0	-510.6	0.00	0.00	0.00	
6,500.0	9.50	133.94	6,440.1	-518.3	537.9	-522.1	0.00	0.00	0.00	
6,600.0	9.50	133.94	6,538.8	-529.7	549.8	-533.6	0.00	0.00	0.00	
6,700.0	9.50	133.94	6,637.4	-541.2	561.6	-545.2	0.00	0.00	0.00	
6,800.0	9.50	133.94	6,736.0	-552.6	573.5	-556.7	0.00	0.00	0.00	
6,900.0	9.50	133.94	6,834.6	-564.1	585.4	-568.3	0.00	0.00	0.00	
7,000.0	9.50	133.94	6,933.3	-575.5	597.3	-579.8	0.00	0.00	0.00	
7,100.0	9.50	133.94	7,031.9	-587.0	609.2	-591.3	0.00	0.00	0.00	
7,200.0	9.50	133.94	7,130.5	-598.4	621.1	-602.9	0.00	0.00	0.00	
7,300.0	9.50	133.94	7,229.2	-609.9	632.9	-614.4	0.00	0.00	0.00	
7,400.0	9.50	133.94	7,327.8	-621.3	644.8	-625.9	0.00	0.00	0.00	
7,500.0	9.50	133.94	7,426.4	-632.8	656.7	-637.5	0.00	0.00	0.00	
7,600.0	9.50	133.94	7,525.0	-644.2	668.6	-649.0	0.00	0.00	0.00	
7,700.0	9.50	133.94	7,623.7	-655.7	680.5	-660.5	0.00	0.00	0.00	
7,736.8	9.50	133.94	7,660.0	-659.9	684.9	-664.8	0.00	0.00	0.00	
Brushy Canyon										
7,800.0	9.50	133.94	7,722.3	-667.1	692.4	-672.1	0.00	0.00	0.00	
7,900.0	9.50	133.94	7,820.9	-678.6	704.2	-683.6	0.00	0.00	0.00	
8,000.0	9.50	133.94	7,919.6	-690.0	716.1	-695.1	0.00	0.00	0.00	
8,100.0	9.50	133.94	8,018.2	-701.5	728.0	-706.7	0.00	0.00	0.00	
8,200.0	9.50	133.94	8,116.8	-712.9	739.9	-718.2	0.00	0.00	0.00	
8,300.0	9.50	133.94	8,215.4	-724.4	751.8	-729.8	0.00	0.00	0.00	
8,400.0	9.50	133.94	8,314.1	-735.8	763.7	-741.3	0.00	0.00	0.00	
8,500.0	9.50	133.94	8,412.7	-747.3	775.5	-752.8	0.00	0.00	0.00	
8,600.0	9.50	133.94	8,511.3	-758.7	787.4	-764.4	0.00	0.00	0.00	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)	
8,658.9	9.50	133.94	8,569.5	-765.5	794.4	-771.2	0.00	0.00	0.00	
8,700.0	9.09	133.94	8,610.0	-770.1	799.2	-775.8	1.00	-1.00	0.00	
8,800.0	8.09	133.94	8,708.9	-780.5	810.0	-786.2	1.00	-1.00	0.00	
8,900.0	7.09	133.94	8,808.0	-789.6	819.5	-795.5	1.00	-1.00	0.00	
9,000.0	6.09	133.94	8,907.3	-797.6	827.7	-803.5	1.00	-1.00	0.00	
9,100.0	5.09	133.94	9,006.8	-804.3	834.7	-810.3	1.00	-1.00	0.00	
9,200.0	4.09	133.94	9,106.5	-809.9	840.5	-815.9	1.00	-1.00	0.00	
9,220.5	3.88	133.94	9,127.0	-810.9	841.5	-816.9	1.00	-1.00	0.00	
Bone Spring Lime										
9,300.0	3.09	133.94	9,206.3	-814.2	845.0	-820.3	1.00	-1.00	0.00	
9,324.7	2.84	133.94	9,231.0	-815.1	845.9	-821.1	1.00	-1.00	0.00	
Upper Avalon										
9,400.0	2.09	133.94	9,306.2	-817.4	848.3	-823.4	1.00	-1.00	0.00	
9,500.0	1.09	133.94	9,406.2	-819.3	850.3	-825.3	1.00	-1.00	0.00	
9,549.8	0.59	133.94	9,456.0	-819.8	850.8	-825.9	1.00	-1.00	0.00	
Middle Avalon										
9,608.8	0.00	0.01	9,515.0	-820.0	851.0	-826.1	1.00	-1.00	0.00	
9,700.0	0.00	0.00	9,606.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,706.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,806.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
9,918.8	0.00	0.00	9,825.0	-820.0	851.0	-826.1	0.00	0.00	0.00	
Lower Avalon										
10,000.0	0.00	0.00	9,906.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,006.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,106.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,215.8	0.00	0.00	10,122.0	-820.0	851.0	-826.1	0.00	0.00	0.00	
1st Bone Spring Sand										
10,300.0	0.00	0.00	10,206.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,306.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,481.8	0.00	0.00	10,388.0	-820.0	851.0	-826.1	0.00	0.00	0.00	
2nd Bone Spring Carb										
10,500.0	0.00	0.00	10,406.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,506.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,606.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,706.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
10,889.8	0.00	0.00	10,796.0	-820.0	851.0	-826.1	0.00	0.00	0.00	
2nd Bone Spring Sand										
10,900.0	0.00	0.00	10,806.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,906.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,006.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,106.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,206.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,306.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,425.8	0.00	0.00	11,332.0	-820.0	851.0	-826.1	0.00	0.00	0.00	
3rd Bone Spring Carb										
11,500.0	0.00	0.00	11,406.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,506.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,606.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,706.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,806.2	-820.0	851.0	-826.1	0.00	0.00	0.00	
11,990.8	0.00	0.01	11,897.0	-820.0	851.0	-826.1	0.00	0.00	0.00	
12,000.0	0.92	359.59	11,906.2	-819.9	851.0	-826.0	10.00	10.00	0.00	
12,021.8	3.10	359.59	11,928.0	-819.2	851.0	-825.2	10.00	10.00	0.00	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
3rd Bone Spring Sand									
12,050.0	5.92	359.59	11,956.1	-816.9	851.0	-823.0	10.00	10.00	0.00
12,100.0	10.92	359.59	12,005.5	-809.6	850.9	-815.7	10.00	10.00	0.00
12,150.0	15.92	359.59	12,054.1	-798.0	850.8	-804.1	10.00	10.00	0.00
12,200.0	20.92	359.59	12,101.6	-782.2	850.7	-788.3	10.00	10.00	0.00
12,250.0	25.92	359.59	12,147.4	-762.4	850.6	-768.4	10.00	10.00	0.00
12,300.0	30.92	359.59	12,191.4	-738.6	850.4	-744.7	10.00	10.00	0.00
12,340.0	34.92	359.59	12,225.0	-716.8	850.3	-722.9	10.00	10.00	0.00
3rd BS W Sand									
12,350.0	35.92	359.59	12,233.1	-711.1	850.2	-717.1	10.00	10.00	0.00
12,387.8	39.70	359.59	12,263.0	-687.9	850.1	-693.9	10.00	10.00	0.00
Wolfcamp A X Sand									
12,400.0	40.92	359.59	12,272.3	-680.0	850.0	-686.1	10.00	10.00	0.00
12,450.0	45.92	359.59	12,308.6	-645.6	849.8	-651.7	10.00	10.00	0.00
12,500.0	50.92	359.59	12,341.8	-608.3	849.5	-614.3	10.00	10.00	0.00
12,550.0	55.92	359.59	12,371.5	-568.1	849.2	-574.2	10.00	10.00	0.00
12,600.0	60.92	359.59	12,397.7	-525.5	848.9	-531.6	10.00	10.00	0.00
12,650.0	65.92	359.59	12,420.1	-480.8	848.6	-486.9	10.00	10.00	0.00
12,664.9	67.41	359.59	12,426.0	-467.1	848.5	-473.2	10.00	10.00	0.00
Wolfcamp A Y Sand									
12,700.0	70.92	359.59	12,438.5	-434.4	848.2	-440.4	10.00	10.00	0.00
12,750.0	75.92	359.59	12,452.7	-386.5	847.9	-392.5	10.00	10.00	0.00
12,800.0	80.92	359.59	12,462.8	-337.5	847.5	-343.6	10.00	10.00	0.00
12,850.0	85.92	359.59	12,468.5	-287.8	847.2	-293.9	10.00	10.00	0.00
12,890.8	90.00	359.59	12,470.0	-247.1	846.9	-253.1	10.00	10.00	0.00
12,900.0	90.00	359.59	12,470.0	-237.9	846.8	-243.9	0.00	0.00	0.00
13,000.0	90.00	359.59	12,470.0	-137.9	846.1	-143.9	0.00	0.00	0.00
13,100.0	90.00	359.59	12,470.0	-37.9	845.4	-43.9	0.00	0.00	0.00
13,200.0	90.00	359.59	12,470.0	62.1	844.7	56.1	0.00	0.00	0.00
13,300.0	90.00	359.59	12,470.0	162.1	844.0	156.1	0.00	0.00	0.00
13,400.0	90.00	359.59	12,470.0	262.1	843.3	256.1	0.00	0.00	0.00
13,500.0	90.00	359.59	12,470.0	362.1	842.5	356.1	0.00	0.00	0.00
13,600.0	90.00	359.59	12,470.0	462.1	841.8	456.1	0.00	0.00	0.00
13,700.0	90.00	359.59	12,470.0	562.1	841.1	556.1	0.00	0.00	0.00
13,800.0	90.00	359.59	12,470.0	662.1	840.4	656.1	0.00	0.00	0.00
13,900.0	90.00	359.59	12,470.0	762.1	839.7	756.1	0.00	0.00	0.00
14,000.0	90.00	359.59	12,470.0	862.1	839.0	856.1	0.00	0.00	0.00
14,100.0	90.00	359.59	12,470.0	962.1	838.2	956.1	0.00	0.00	0.00
14,200.0	90.00	359.59	12,470.0	1,062.1	837.5	1,056.1	0.00	0.00	0.00
14,300.0	90.00	359.59	12,470.0	1,162.1	836.8	1,156.1	0.00	0.00	0.00
14,400.0	90.00	359.59	12,470.0	1,262.1	836.1	1,256.1	0.00	0.00	0.00
14,500.0	90.00	359.59	12,470.0	1,362.1	835.4	1,356.1	0.00	0.00	0.00
14,600.0	90.00	359.59	12,470.0	1,462.1	834.7	1,456.1	0.00	0.00	0.00
14,700.0	90.00	359.59	12,470.0	1,562.1	833.9	1,556.1	0.00	0.00	0.00
14,800.0	90.00	359.59	12,470.0	1,662.1	833.2	1,656.1	0.00	0.00	0.00
14,900.0	90.00	359.59	12,470.0	1,762.1	832.5	1,756.1	0.00	0.00	0.00
15,000.0	90.00	359.59	12,470.0	1,862.1	831.8	1,856.1	0.00	0.00	0.00
15,100.0	90.00	359.59	12,470.0	1,962.1	831.1	1,956.1	0.00	0.00	0.00
15,200.0	90.00	359.59	12,470.0	2,062.1	830.4	2,056.1	0.00	0.00	0.00
15,300.0	90.00	359.59	12,470.0	2,162.1	829.7	2,156.1	0.00	0.00	0.00
15,400.0	90.00	359.59	12,470.0	2,262.1	828.9	2,256.1	0.00	0.00	0.00
15,500.0	90.00	359.59	12,470.0	2,362.1	828.2	2,356.1	0.00	0.00	0.00
15,600.0	90.00	359.59	12,470.0	2,462.1	827.5	2,456.1	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
15,700.0	90.00	359.59	12,470.0	2,562.0	826.8	2,556.1	0.00	0.00	0.00
15,800.0	90.00	359.59	12,470.0	2,662.0	826.1	2,656.1	0.00	0.00	0.00
15,900.0	90.00	359.59	12,470.0	2,762.0	825.4	2,756.1	0.00	0.00	0.00
16,000.0	90.00	359.59	12,470.0	2,862.0	824.6	2,856.1	0.00	0.00	0.00
16,100.0	90.00	359.59	12,470.0	2,962.0	823.9	2,956.1	0.00	0.00	0.00
16,200.0	90.00	359.59	12,470.0	3,062.0	823.2	3,056.1	0.00	0.00	0.00
16,300.0	90.00	359.59	12,470.0	3,162.0	822.5	3,156.1	0.00	0.00	0.00
16,400.0	90.00	359.59	12,470.0	3,262.0	821.8	3,256.1	0.00	0.00	0.00
16,500.0	90.00	359.59	12,470.0	3,362.0	821.1	3,356.1	0.00	0.00	0.00
16,600.0	90.00	359.59	12,470.0	3,462.0	820.3	3,456.1	0.00	0.00	0.00
16,700.0	90.00	359.59	12,470.0	3,562.0	819.6	3,556.1	0.00	0.00	0.00
16,800.0	90.00	359.59	12,470.0	3,662.0	818.9	3,656.1	0.00	0.00	0.00
16,900.0	90.00	359.59	12,470.0	3,762.0	818.2	3,756.1	0.00	0.00	0.00
17,000.0	90.00	359.59	12,470.0	3,862.0	817.5	3,856.1	0.00	0.00	0.00
17,100.0	90.00	359.59	12,470.0	3,962.0	816.8	3,956.1	0.00	0.00	0.00
17,200.0	90.00	359.59	12,470.0	4,062.0	816.1	4,056.1	0.00	0.00	0.00
17,300.0	90.00	359.59	12,470.0	4,162.0	815.3	4,156.1	0.00	0.00	0.00
17,400.0	90.00	359.59	12,470.0	4,262.0	814.6	4,256.1	0.00	0.00	0.00
17,500.0	90.00	359.59	12,470.0	4,362.0	813.9	4,356.1	0.00	0.00	0.00
17,600.0	90.00	359.59	12,470.0	4,462.0	813.2	4,456.1	0.00	0.00	0.00
17,700.0	90.00	359.59	12,470.0	4,562.0	812.5	4,556.1	0.00	0.00	0.00
17,800.0	90.00	359.59	12,470.0	4,662.0	811.8	4,656.1	0.00	0.00	0.00
17,900.0	90.00	359.59	12,470.0	4,762.0	811.0	4,756.1	0.00	0.00	0.00
18,000.0	90.00	359.59	12,470.0	4,862.0	810.3	4,856.1	0.00	0.00	0.00
18,100.0	90.00	359.59	12,470.0	4,962.0	809.6	4,956.1	0.00	0.00	0.00
18,200.0	90.00	359.59	12,470.0	5,062.0	808.9	5,056.1	0.00	0.00	0.00
18,300.0	90.00	359.59	12,470.0	5,162.0	808.2	5,156.1	0.00	0.00	0.00
18,400.0	90.00	359.59	12,470.0	5,262.0	807.5	5,256.1	0.00	0.00	0.00
18,500.0	90.00	359.59	12,470.0	5,362.0	806.8	5,356.1	0.00	0.00	0.00
18,600.0	90.00	359.59	12,470.0	5,462.0	806.0	5,456.1	0.00	0.00	0.00
18,700.0	90.00	359.59	12,470.0	5,562.0	805.3	5,556.1	0.00	0.00	0.00
18,800.0	90.00	359.59	12,470.0	5,662.0	804.6	5,656.1	0.00	0.00	0.00
18,900.0	90.00	359.59	12,470.0	5,762.0	803.9	5,756.1	0.00	0.00	0.00
19,000.0	90.00	359.59	12,470.0	5,862.0	803.2	5,856.1	0.00	0.00	0.00
19,100.0	90.00	359.59	12,470.0	5,962.0	802.5	5,956.1	0.00	0.00	0.00
19,200.0	90.00	359.59	12,470.0	6,062.0	801.7	6,056.1	0.00	0.00	0.00
19,300.0	90.00	359.59	12,470.0	6,162.0	801.0	6,156.1	0.00	0.00	0.00
19,400.0	90.00	359.59	12,470.0	6,262.0	800.3	6,256.1	0.00	0.00	0.00
19,500.0	90.00	359.59	12,470.0	6,362.0	799.6	6,356.1	0.00	0.00	0.00
19,600.0	90.00	359.59	12,470.0	6,461.9	798.9	6,456.1	0.00	0.00	0.00
19,700.0	90.00	359.59	12,470.0	6,561.9	798.2	6,556.1	0.00	0.00	0.00
19,800.0	90.00	359.59	12,470.0	6,661.9	797.4	6,656.1	0.00	0.00	0.00
19,900.0	90.00	359.59	12,470.0	6,761.9	796.7	6,756.1	0.00	0.00	0.00
20,000.0	90.00	359.59	12,470.0	6,861.9	796.0	6,856.1	0.00	0.00	0.00
20,100.0	90.00	359.59	12,470.0	6,961.9	795.3	6,956.1	0.00	0.00	0.00
20,200.0	90.00	359.59	12,470.0	7,061.9	794.6	7,056.1	0.00	0.00	0.00
20,300.0	90.00	359.59	12,470.0	7,161.9	793.9	7,156.1	0.00	0.00	0.00
20,400.0	90.00	359.59	12,470.0	7,261.9	793.2	7,256.1	0.00	0.00	0.00
20,500.0	90.00	359.59	12,470.0	7,361.9	792.4	7,356.1	0.00	0.00	0.00
20,600.0	90.00	359.59	12,470.0	7,461.9	791.7	7,456.1	0.00	0.00	0.00
20,700.0	90.00	359.59	12,470.0	7,561.9	791.0	7,556.1	0.00	0.00	0.00
20,800.0	90.00	359.59	12,470.0	7,661.9	790.3	7,656.1	0.00	0.00	0.00
20,900.0	90.00	359.59	12,470.0	7,761.9	789.6	7,756.1	0.00	0.00	0.00
21,000.0	90.00	359.59	12,470.0	7,861.9	788.9	7,856.1	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)	
21,100.0	90.00	359.59	12,470.0	7,961.9	788.1	7,956.1	0.00	0.00	0.00	
21,200.0	90.00	359.59	12,470.0	8,061.9	787.4	8,056.1	0.00	0.00	0.00	
21,300.0	90.00	359.59	12,470.0	8,161.9	786.7	8,156.1	0.00	0.00	0.00	
21,400.0	90.00	359.59	12,470.0	8,261.9	786.0	8,256.1	0.00	0.00	0.00	
21,500.0	90.00	359.59	12,470.0	8,361.9	785.3	8,356.1	0.00	0.00	0.00	
21,600.0	90.00	359.59	12,470.0	8,461.9	784.6	8,456.1	0.00	0.00	0.00	
21,700.0	90.00	359.59	12,470.0	8,561.9	783.8	8,556.1	0.00	0.00	0.00	
21,800.0	90.00	359.59	12,470.0	8,661.9	783.1	8,656.1	0.00	0.00	0.00	
21,900.0	90.00	359.59	12,470.0	8,761.9	782.4	8,756.1	0.00	0.00	0.00	
22,000.0	90.00	359.59	12,470.0	8,861.9	781.7	8,856.1	0.00	0.00	0.00	
22,100.0	90.00	359.59	12,470.0	8,961.9	781.0	8,956.1	0.00	0.00	0.00	
22,200.0	90.00	359.59	12,470.0	9,061.9	780.3	9,056.1	0.00	0.00	0.00	
22,300.0	90.00	359.59	12,470.0	9,161.9	779.6	9,156.1	0.00	0.00	0.00	
22,400.0	90.00	359.59	12,470.0	9,261.9	778.8	9,256.1	0.00	0.00	0.00	
22,500.0	90.00	359.59	12,470.0	9,361.9	778.1	9,356.1	0.00	0.00	0.00	
22,600.0	90.00	359.59	12,470.0	9,461.9	777.4	9,456.1	0.00	0.00	0.00	
22,700.0	90.00	359.59	12,470.0	9,561.9	776.7	9,556.1	0.00	0.00	0.00	
22,796.1	90.00	359.59	12,470.0	9,658.0	776.0	9,652.2	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (Apollo State Cor - hit/miss target - Shape - plan misses target center by 202.8usft at 12464.1usft MD (12318.3 TVD, -635.4 N, 849.7 E) - Point	0.00	0.00	12,470.0	-770.0	850.0	435,924.00	776,867.00	32° 11' 46.104 N	103° 34' 18.897 W	
PBHL (Apollo State C - plan hits target center - Rectangle (sides W100.0 H10,428.0 D30.0)	0.00	359.59	12,470.0	9,658.0	776.0	446,352.00	776,793.00	32° 13' 29.296 N	103° 34' 18.899 W	
LTP (Apollo State Cor - plan misses target center by 26.1usft at 22700.0usft MD (12470.0 TVD, 9561.9 N, 776.7 E) - Point	0.00	0.00	12,470.0	9,588.0	777.0	446,282.00	776,794.00	32° 13' 28.604 N	103° 34' 18.893 W	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #206H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3569.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #206H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,172.0	1,172.0	Rustler Anhydrite				
1,663.0	1,663.0	Top Salt				
4,956.7	4,918.0	Base Salt				
5,178.8	5,137.0	Delaware Mountain Gp				
5,200.1	5,158.0	Lamar				
5,241.6	5,199.0	Bell Canyon				
5,274.1	5,231.0	Ramsey Sand				
6,238.3	6,182.0	Cherry Canyon				
7,736.8	7,660.0	Brushy Canyon				
9,220.5	9,127.0	Bone Spring Lime				
9,324.7	9,231.0	Upper Avalon				
9,549.8	9,456.0	Middle Avalon				
9,918.8	9,825.0	Lower Avalon				
10,215.8	10,122.0	1st Bone Spring Sand				
10,481.8	10,388.0	2nd Bone Spring Carb				
10,889.8	10,796.0	2nd Bone Spring Sand				
11,425.8	11,332.0	3rd Bone Spring Carb				
12,021.8	11,928.0	3rd Bone Spring Sand				
12,340.0	12,225.0	3rd BS W Sand				
12,387.8	12,263.0	Wolfcamp A X Sand				
12,664.9	12,426.0	Wolfcamp A Y Sand				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.0	1,500.0	0.0	0.0	NUDGE - Build 1.00	
2,449.9	2,445.5	-54.5	56.6	HOLD - 6209.1 at 2449.9 MD	
8,658.9	8,569.5	-765.5	794.4	DROP - -1.00	
9,608.8	9,515.0	-820.0	851.0	HOLD - 2382.0 at 9608.8 MD	
11,990.8	11,897.0	-820.0	851.0	KOP - DLS 10.00 TFO 359.59	
12,890.8	12,470.0	-247.1	846.9	EOC/TRN - 9905.3 hold at 12890.8 MD	
22,796.1	12,470.0	9,658.0	776.0	TD at 22796.1	



Casing and Tubing Performance Data

PIPE BODY DATA

GEOMETRY

Outside Diameter	13.375 in	Wall Thickness	0.380 in	API Drift Diameter	12.459 in
Nominal Weight	54.50 lbs/ft	Nominal ID	12.615 in	Alternative Drift Diameter	n.a.
Plain End Weight	52.79 lbs/ft	Nominal cross section	15.513 in		

PERFORMANCE

Steel Grade	J55	Minimum Yield	55,000 psi	Minimum Ultimate	75,000 psi
Tension Yield	853,000 in	Internal Pressure Yield	2,730 psi	Collapse Pressure	1,130 psi
Available Seamless	Yes	Available Welded	Yes		

CONNECTION DATA

TYPE: BTC

GEOMETRY

Coupling Reg OD	14.375 in	Threads per in	5	Thread turns make up	1
-----------------	-----------	----------------	---	----------------------	---

PERFORMANCE

Steel Grade	J55	Coupling Min Yield	55,000 psi	Coupling Min Ultimate	75,000 psi
Joint Strength	909,000 lbs			Internal Pressure Resistance	2,730 psi

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

CONDITIONS
 Action 28897

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 28897
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/27/2021