U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

06/25/2026

Well Name: SCREWBALL 30 19 FEDERAL COM

Well Location: T25S / R27E / SEC 30 / SESW / 32.094617 / -104.233479

County or Parish/State: EDDY / NM

Well Number: 457H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM109756

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001556069

Operator: CHEVRON USA INCORPORATED

Notice of Intent

Sundry ID: 2910693

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/11/2026

Time Sundry Submitted: 12:20

Date proposed operation will begin: 05/11/2026

Procedure Description: Chevron U.S.A. Inc. is proposing to sundry SCREWBALL 30 19 FEDERAL COM 454H-457H in Hayhurst to revise the casing design. SCREWBALL 30 19 FEDERAL COM 457H / API 30-015-56069 o Well design changes o Changed from APD approved 4-string to 3-string well design. o Production long-string is 5.5” 17# P110-ICY W451 o Deepest TVD – 8962’ (SCREWBALL 30 19 FEDERAL COM 456H)

NOI Attachments

Procedure Description

SUNDRY_SUPO___Screwball_30_19_Federal_Com_457H_ALL_20260511122016.pdf

CONFIDENTIAL

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Conditions of Approval

Additional

SEC30_T25SR27E_SCREWBALL_30_19_FED_COM__Eddy__CHEVRON_USA_INCORPORATED_46197_JS_20260624124038.pdf

SCREWBALL_30_19_FED_COM_457H_COAs_20260624124038.pdf

Operator

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

Operator Electronic Signature: CAROL ADLER

Signed on: MAY 11, 2026 12:20 PM

Name: CHEVRON USA INCORPORATED

Title: Sr Regulatory Affairs Coordinator

Street Address: 6301 DEAUVILLE BLVD

City: MIDLAND **State:** TX

Phone: (432) 687-7148

Email address: CAROLADLER@CHEVRON.COM

Field

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: 06/25/2026

Signature: Chris Walls

CONFIDENTIAL

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM109756

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
SCREWBALL 30 19 FEDERAL COM/457H

2. Name of Operator CHEVRON USA INCORPORATED

9. API Well No. 3001556069

3a. Address PO BOX 1392, BAKERSFIELD, CA 93302

3b. Phone No. *(include area code)* (661) 633-4000

10. Field and Pool or Exploratory Area
PURPLE SAGE/WOLFCAMP

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 30/T25S/R27E/NMP

11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Chevron U.S.A. Inc. is proposing to sundry SCREWBALL 30 19 FEDERAL COM 454H-457H in Hayhurst to revise the casing design.

SCREWBALL 30 19 FEDERAL COM 457H / API 30-015-56069

o Well design changes

o Changed from APD approved 4-string to 3-string well design.

o Production long-string is 5.5 17# P110-ICY W451

o Deepest TVD 8962 (SCREWBALL 30 19 FEDERAL COM 456H)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
CAROL ADLER / Ph: (432) 687-7148

Title Sr Regulatory Affairs Coordinator

Signature (Electronic Submission)

Date 05/11/2026

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 06/25/2026

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESW / 389 FSL / 1390 FWL / TWSP: 25S / RANGE: 27E / SECTION: 30 / LAT: 32.094617 / LONG: -104.233479 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 330 FSL / 2315 FWL / TWSP: 25S / RANGE: 27E / SECTION: 30 / LAT: 32.094474 / LONG: -104.23049 (TVD: 8759 feet, MD: 8983 feet)

BHL: NENW / 25 FNL / 2315 FWL / TWSP: 25S / RANGE: 27E / SECTION: 19 / LAT: 32.122605 / LONG: -104.230494 (TVD: 8790 feet, MD: 19235 feet)

SCREWBALL 30 19 FED COM

10 3/4	surface csg in a	13 1/2	inch hole.		Design Factors			Surface			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.50	j 55	btc	34.51	6.38	0.72	450	16	1.26	10.62	18,225
"B"			btc				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,500	Tail Cmt	does not	circ to sfc.	Totals:	450				18,225

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
13 1/2	0.3637	175	233	164	42	10.60	2492	3M	0.88

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

8 5/8	casing inside the	10 3/4			Design Factors			Int 1			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	j 55	btc	1.89	0.59	0.84	8,320	1	1.46	1.02	266,240
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	-880				Totals:	8,320				266,240
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		450				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.1261	522	1492	1058	41	10.60	2684	3M	0.13
D V Tool(s):						sum of sx	Σ CuFt		Σ%excess
t by stage % :		#VALUE!	#VALUE!			522	1492		41

Class 'H' tail cmt yld > 1.20

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.47, b, c, d <0.70 a Problem!! Keep casing full

5 1/2	casing inside the	8 5/8			Design Factors			Prod 1			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00	p 110	w451	4.41	2.77	3.08	8,545	3	5.35	4.81	145,265
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,880				Totals:	8,545				145,265
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		8320				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.1733	449	1800	1513	19	10.00	2684	3M	0.99

Class 'C' tail cmt yld > 1.35

Does not meet CFO cement excess %

5 1/2	Liner w/top @	8345			Design Factors			Liner			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00	p 110	w451	4.21	2.64	3.08	10,792	3	5.35	4.58	183,464
"B"			0.00				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:	1,972				Totals:	10,792				183,464
	The cement volume(s) are intended to achieve a top of			8345	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 3/4	0.0835	1304	2386	877	172	10.00			0.43

Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA INCORPORATED
WELL NAME & NO.:	SCREWBALL 30 19 FED COM 457H
LOCATION:	Section 30, T.25 S., R.27 E., NMP
COUNTY:	Eddy County, New Mexico

Create COAs

H_2S	Cave / Karst	Waste Prevention Rule
Present	High	Waste Minimization Plan

Potash	R-111-Q Design
None	

Wellhead	Casing	Cementing
Multibowl	3-String Well	DV Tool, Bradenhead, Echometer
Flex Hose	Liner, Fluid Filled, Casing Clearance	Offline Cement, Open Annulus, Pilot Hole
Break Testing		

Special Requirements

Capitan Reef, Water Disposal, COM, Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **450** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
   - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.
   -

Contingency Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon**.
b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the BLM. If cement does not tie back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- Operator shall run a CBL from TD of the **Intermediate 1** casing to tieback requirements after the second stage BH to verify TOC.
- **Operator shall run Echo-meter to verify Cement Slurry/Fluid top in the annulus.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.
  - Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.
  - No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface.
  - Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.

- If cement does not circulate to surface on the previous casing, this string must come to surface.
- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.
- **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

4. The minimum required fill of cement behind the **5.5 inch** production liner is **100 feet** into the previous casing. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
    a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
    b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.

c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)

Communitization Agreement:

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production.** Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Surface, 1st Intermediate , and Production Liner casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

For multi-well pads, notifications for the following operations may be made together going from one well to the next. This does **NOT** apply to notifications for wells in the R111Q potash area:

- Casing run
- Offline cementing
- Break testing

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator proposed to drill multiple wells utilizing a skid / walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on swell.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will always be operational during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING & CEMENT

1. The current acceptable methods of cement verification are as follows:
    i. Observing cement circulated to surface,
    ii. Cement Bond Log (CBL),
    iii. Temperature log within 8-10 hours after completing the cement job,
    iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
3. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Well specific cement details must be onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
8. If hard band drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

9. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (This only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two -our clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created because of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 6/24/2026

CHEVRON U.S.A. INC.
SCREWBALL 30 19 FEDERAL COM 454H (API #30-015-56066), SCREWBALL 30 19 FEDERAL COM 455H (API #30-015-56067), SCREWBALL 30 19 FEDERAL COM 456H (API #30-015-56068), SCREWBALL 30 19 FEDERAL COM 457H (API #30-015-56069)
SECTION 30, T25S-R27E, EDDY COUNTY, NM

Sundry

Proposed Sundry

Chevron U.S.A. Inc. is proposing to sundry SCREWBALL 30 19 FEDERAL COM 454H-457H in Hayhurst to revise the casing design.

Sundry Details

- **C102 changes - NONE**
- **Well design changes**
  - Changed from APD approved 4-string to 3-string well design.
  - Production long-string is 5.5” 17# P110-ICY W451
  - Deepest TVD – 8962’ (SCREWBALL 30 19 FEDERAL COM 456H)

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43 CFR 3171
Chevron
SCREWBALL 30 19 FEDERAL COM 457H
Eddy County, NM

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DRILLING PLAN
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Pad Summary: HNM PAD 49 SCREWBALL

The table below lists all the wells for the given pad and their respective name and TVD's (ft) for their production target intervals:

Well Name(s)	Target TVD	Formation Desc.
SCREWBALL 30 19 FEDERAL COM 454H	8,801	Wolfcamp
SCREWBALL 30 19 FEDERAL COM 455H	8,789	Wolfcamp
SCREWBALL 30 19 FEDERAL COM 456H	8,962	Wolfcamp
SCREWBALL 30 19 FEDERAL COM 457H	8,812	Wolfcamp

1. **GEOLOGICAL TOPS**

Elevation: As seen in C-102

The estimated tops of important geologic markers are as follows:

FORMATION	LITHOLOGIES	TVD	MD	Producing Formation?
Salado (SLDO)	Anhydrite/Salt	28	28	No
Castile (CSTL)	Anhydrite/Salt	388	388	No
Lamar (LMAR)	Limestone/Shale	1,991	2,057	No
Bell Canyon (BLCN)	Sandstone/Limestone	2,040	2,111	No
Cherry Canyon (CRCN)	Sandstone/Siltstone	2,874	3,023	No
Brushy Canyon (BCN)	Sandstone/Limestone	3,959	4,136	No
Bone Spring Lime (BSGL)	Shale/Siltstone	5,594	5,771	No
Avalon Upper (AVU)	Shale	5,695	5,872	No
Avalon Lower (AVL)	Shale	6,063	6,240	No
First Bone Spring Upper (FBU)	Sandstone/Shale	6,485	6,662	No
First Bone Spring Lower (FBL)	Shale	6,685	6,862	No
Second Bone Spring Upper (SBU)	Sandstone/Shale	7,005	7,182	No
Second Bone Spring Lower (SBL)	Sandstone/Shale	7,488	7,665	No
Third Bone First Carbonate (TB1C)	Sandstone/Shale	8,133	8,310	No
Third Bone Spring	Sandstone/Shale	8,349	8,526	No
Wolfcamp A	Sandstone/Shale	8,905	9,242	Yes: Oil & Natural Gas

WELLBORE LOCATIONS	MD	TVD
SHL	-	-
KOP	8,545	8,367
FTP	9,440	8,940
LTP	19,084	8,901
BHL	19,134	8,900

2. **BOP EQUIPMENT AND TESTING**

Rating Depth 8,940 TVD

Equipment

Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing

Request Variance: Yes
Variance Request(s)
Chevron respectfully request to vary from the 43 CFR 3172 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / ≥ 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized.

Chevron respectfully requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party.

Chevron respectfully requests a variance from the 0.422" annular clearance requirement per 43 CFR3172 for the intermediate 1 (salt) section under the following condition:
1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing connection OD for the first 500' of overlap between both strings.

Testing Procedure
The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the Digital BOP Test Method in lieu of the standard test chart. In the event the digital system is unavailable, the standard test chart will be used.

3. **CASING PROGRAM**

a. The proposed PRIMARY casing program will be as follows:

Purpose	Top (MD)	Top (TVD)	Bot (MD)	Bot (TVD)	Hole Size	Csg Size	Weight	Grade	Thread
Surface	0'	0'	450'	450'	13.5" / 17.5"	10.75"	40.5 #	J-55	BTC/STC
Intermediate	0'	0'	8,320'	8,142'	9.875"	8.625"	32.0 #	L80IC	BTC (SC/AD)
Production†	0'	0'	8,545'	8,367'	7.875"	5.5"	17.0 #	P-110 ICY	W451
Production†	8,345'	8,167'	19,134'	8,900'	6.75" / 7.875"	5.5"	17.0 #	P-110 ICY	W451

† 7.875" hole size to kickoff point. Then either 7.875" or 6.75" hole size to TD. 5.5" W451 casing from surface to TD (max OD at connection is 5.852")

b. **All casing strings will be new pipe.**
c. **Casing design depths subject to revision based on directional drilling and geologic conditions encountered.**
d. **Chevon will keep intermediate casing fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840'), and never to surpass ⅓ of casing, while running intermediate casing in order to maintain collapse SF.**

Casing String	Min SF Collapse	Min SF Burst	Min SF Axial (Joint)	Min SF Axial (Body)
Surface	Refer to attached casing design load analysis			
Intermediate	Refer to attached casing design load analysis			
Production†	Refer to attached casing design load analysis			

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4. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	*Quantity*	Yield	Density	%Excess	Volume	Additives
Surface Casing 10-3/4"									
Planned single stage cement job									
Tail	Class C	0'	450'	175	1.33	14.8	25	232	Extender, Antifoam, Retarder, Viscosifier
Intermediate Casing 8-5/8"									
Planned single stage cement job									
Lead	Class C	0'	7,320'	311	3.86	10.7	25	1199	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	7,320'	8,320'	211	1.38	14.5	25	292	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	5,920'	1301	1.33	14.8	25	1730	Extender, Antifoam, Retarder, Viscosifier
Production Casing 5-1/2"									
Lead	Class C	0'	8,120'	449	4.01	10.5	25	1800	Extender, Antifoam,
Tail	Class H	8,120'	19,134'	1304	1.83	13.2	25	2386	Extender, Antifoam, Retarder, Viscosifier

Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

5. **MUD PROGRAM**

Top	Bottom	Type	Min MW	Max MW at TD	Additional Charactistics
0'	450'	Spud Mud	8.3	10.6	
450'	8,320'	Brine	8.3	10.0	Saturated brine would be used through salt sections.
8,320'	19,134'	WBM/OBM	8.5	11.0	Due to wellbore instability in the lateral, may exceed the MW window needed to maintain overburden stresses

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

If an open reserve pit is not approved by OCD, a closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transportating of E&P waste will follow EPA regulations and accompanying manifests.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

6. **TESTING, LOGGING, AND CORING**

a. **Production tests are not planned.**
b. Logs run include: **Gamma Ray Log, Directional Survey**

c. **Coring Operations are not planned.**

7. **ABNORMAL PRESSURES AND HYDROGEN SULFIDE**

Anticipated BHP	5,114	psi
Anticipated BHT	156	°F
Anticipated abnormal pressures?	Yes	
Describe abnormal pressures	Pressure ramp begins in the bottom of the Third Bone Spring formation	
Contingency plan(s) description:	- Casing design accounts for pressure ramp - Mud weighting agents available on location to increase drilling fluid density - BOP, choke, and well control drills - BOP functioned and pressure tested	

Hydrogen sulfide gas is not anticipated: However the H2S Contingency plan is attached with this APD in the event that H2S is encountered

8. **OTHER ITEMS**

a. **Batch drilling** will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.
b. **Shallow rig** may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.
c. **Wait on cement** duration for surface and intermediate string(s) will be based on time for tail slurry to develop 500 psi compressive strength and will follow rules as laid out in 43 CFR 3172
d. **Offline cementing** will be employed on the hole sections that run a long string casing to surface. Offline cementing schematic below.

Cover Page

Casing OQE

Scope and Type Well Design Criteria

Scope and Type Well Design Criteria	
Area(s)	Hayhurst New Mexico Development Area
Formation(s)	Wolfcamp A Targets
Casing Design(s)	3-String Type Well
Sour Service	No
Type Well Design Criteria	Deepest Wolfcamp A in HNM - applicable to all shallower wells in New Mexico. Mid-case (expected) pore and frac pressures based on HNM MEM - 15April2026 2-mile lateral with 3,800' MD step-out

DrillPlan

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1 Casing Design

1.1 Material and Connection Specifications

Section	13.5 in	9.875 in	6.75 in
Description	10.75", 40.5#, J55, BTC, MCBU	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU
Casing Type	Surface Casing	Casing	Production Casing
From (ft)	28.50	28.50	28.50
To (ft)	500.50	8452.96	19686.20
Weight (lbm/ft)	40.50	32.00	17.00
Grade	J55	L80IC	P110ICY
Connection	BTC	BTC SC	W451
BTC Torque	Unknown	Unknown	Unknown
Min. MUT (kft.lbf)			15.00
Opt. MUT (kft.lbf)			16.00
Max. MUT (kft.lbf)			18.00
Operating Torque (kft.lbf)			35.70
Nominal OD (in)	10.750	8.625	5.500
Nominal ID (in)	10.050	7.921	4.892
Drift (in)	9.894	7.875	4.767
Coupling OD (in)	11.750	9.125	5.900
Body Burst Rating (psi)	3130.00	5710.00	12090.00
Body Collapse Rating (psi)	1580.00	3700.00	8610.00
Body Tension Rating (lbf)	629000.00	732000.00	620000.00
Body Compression Rating (lbf)	629000.00	732000.00	620000.00
Connection Burst Rating (psi)	3130.00	5710.00	12090.00
Connection Collapse Rating (psi)	1580.00	3700.00	8610.00
Connection Tension Rating (lbf)	700000.00	764000.00	514000.00
Connection Compression Rating (lbf)	628000.00	764000.00	310000.00

Note: Any casing grade or connection with higher performance ratings than components used for this analysis may be utilized. Ensure casing connection operating torque limit is sufficient for casing rotation and meets BLM clearance requirement (0.422 inches on all sides in the hole/casing annulus), if applicable.

1.2 Load Case Evaluation Results

Casing Design Factors

String Type	Burst	Collapse	Tension	Compression	Von Mises	Connection

						Envelope (VME)
Surface Casing						
String Body	1.100	1.000	1.300	1.300	1.100	N/A
Non-API Connection	1.100	1.000	1.300	1.300	N/A	1.000
API Connection	1.100	1.000	1.600	1.600	N/A	1.000
Casing/Liner/Tieback						
String Body	1.100	1.000	1.300	1.300	1.100	N/A
Non-API Connection	1.100	1.000	1.300	1.300	N/A	1.000
API Connection	1.100	1.000	1.600	1.600	N/A	1.000
Production Casing/Liner/Tieback						
String Body	1.100	1.000	1.300	1.300	1.100	N/A
Non-API Connection	1.100	1.000	1.300	1.300	N/A	1.000
API Connection	1.100	1.000	1.600	1.600	N/A	1.000

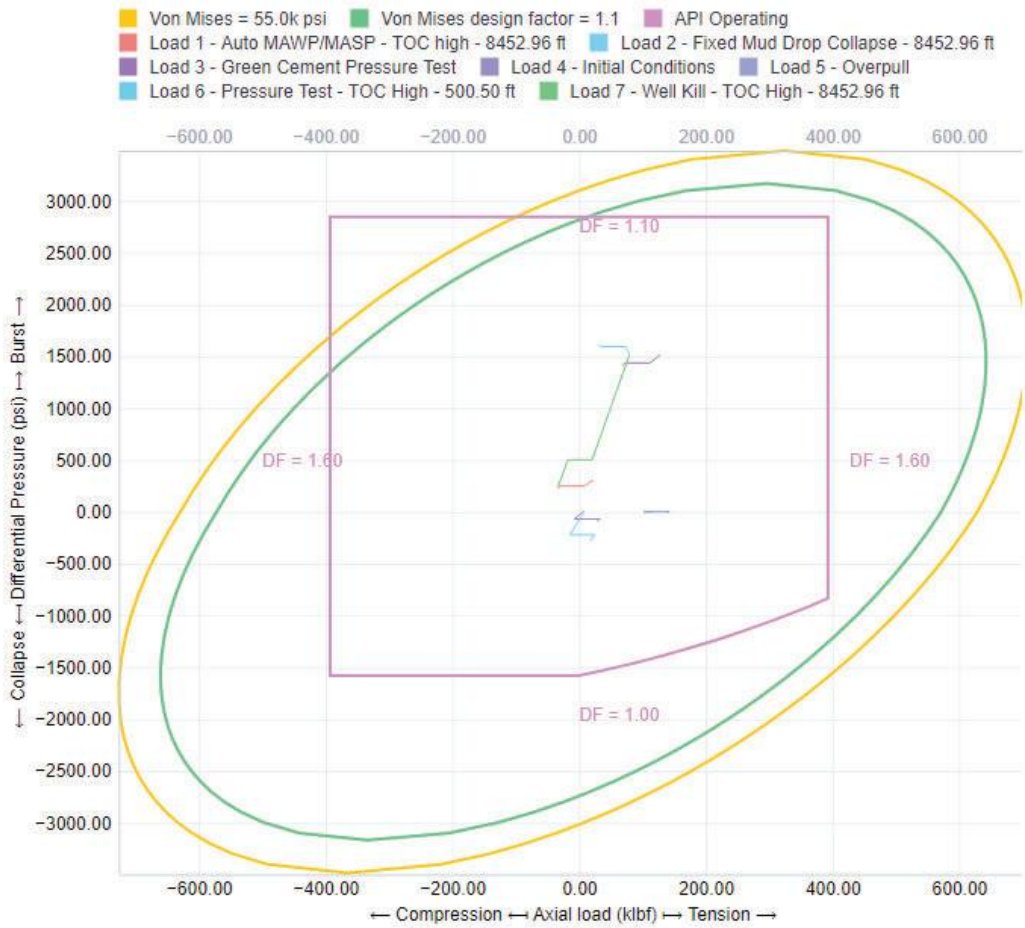
Casing Design Results Summary

Section (Type)	String	Burst	Collapse	Tension	Compression	Von Mises	Buckling (deg/100ft)	Connection Envelope (VME)
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	1.941	5.708	4.106	C 10.351	2.026	1.500	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	1.678	1.806	2.142	5.743	1.824	1.592	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	1.182	1.359	C 1.607	C 1.864	1.274	10.074	N/A

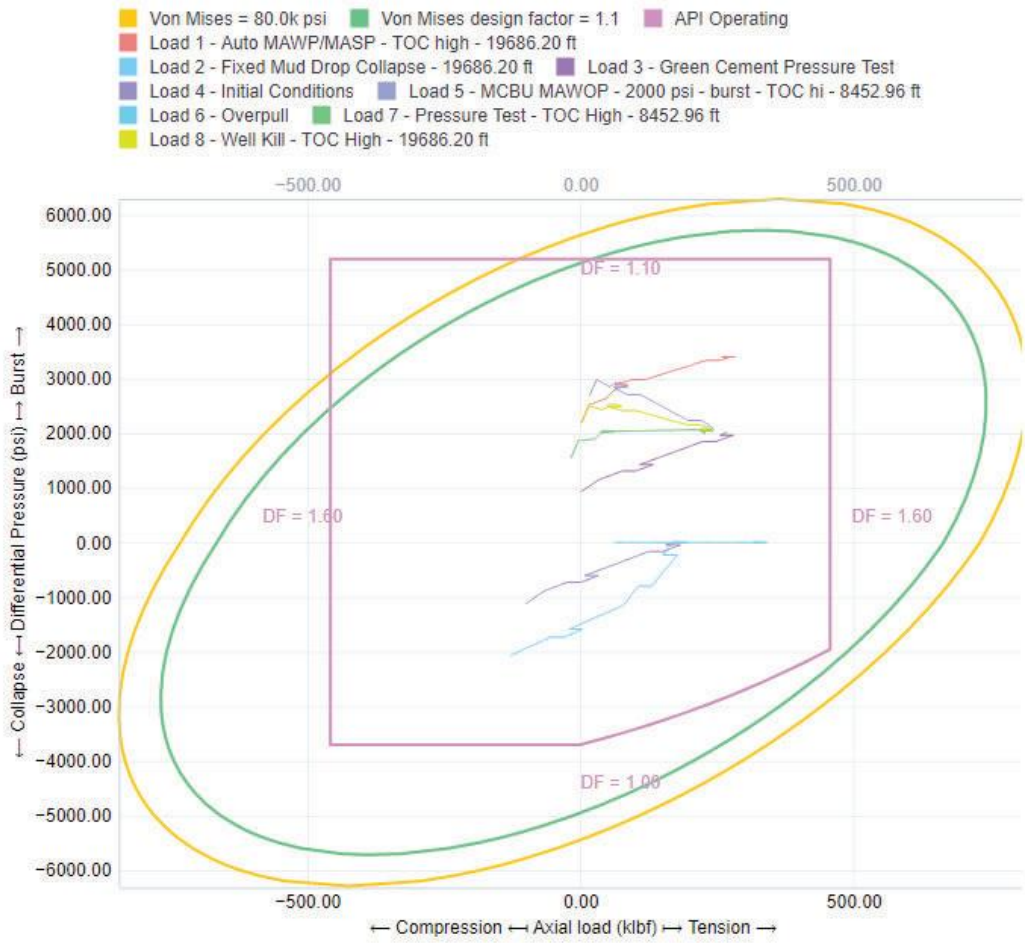
Casing Design Results Detailed

Section (Type)	String	Load Case	Burst	Collapse	Tension	Compression	Von Mises	Buckling (deg/100ft)	Connection Envelope (VME)
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Auto MAWP/MASP - TOC high - 8452.96 ft	10.477		12.614		9.326	1.500	N/A
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Fixed Mud Drop Collapse - 8452.96 ft		5.708	93.025	C 10.351	9.196	1.500	N/A
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Well Kill - TOC High - 8452.96 ft	2.092		7.986		2.294	1.500	N/A
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Pressure Test - TOC High - 500.50 ft	1.941		5.517		2.026	1.500	N/A
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Green Cement Pressure Test	2.074		4.106		2.326	1.500	N/A
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Overpull			4.398		4.337	1.500	N/A

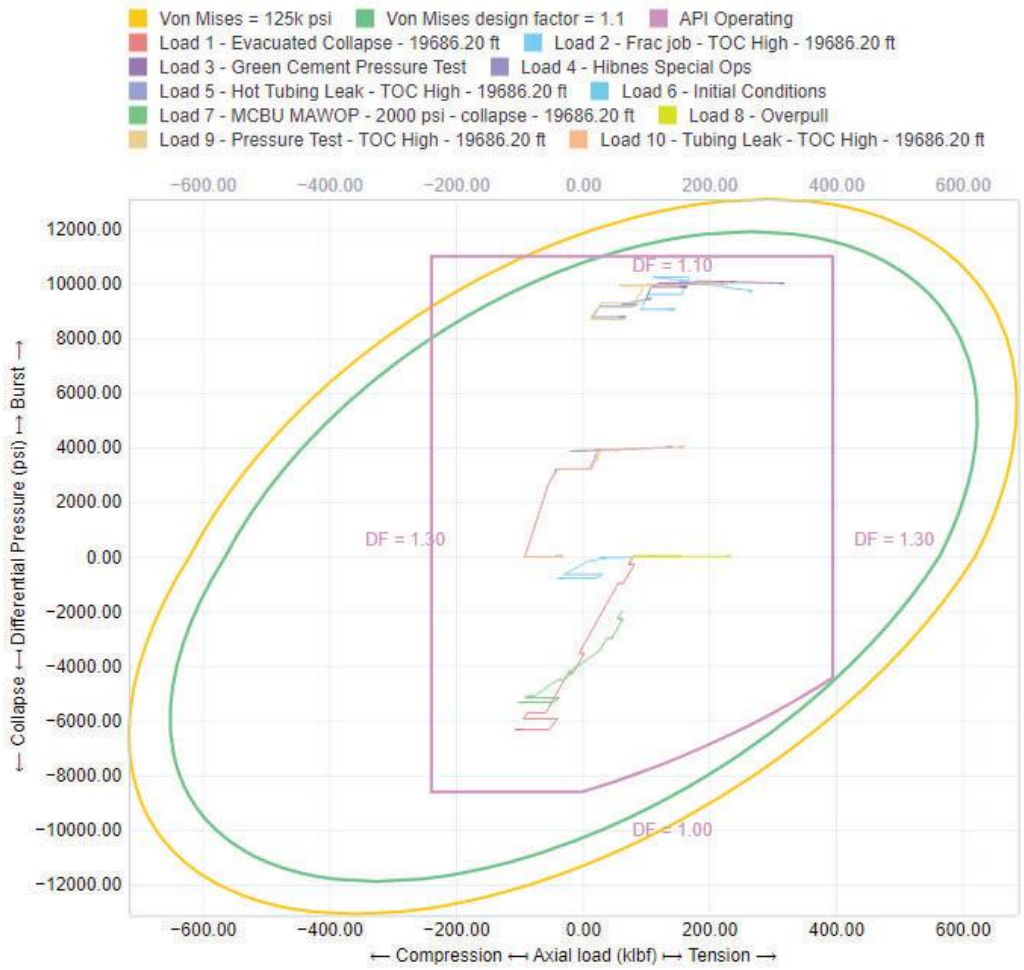
13.5'' (Surface Casing)	10.75", 40.5#, J55, BTC, MCBU	Initial Conditions	810.526	17.616	81.506	C 11.970	14.021	1.500	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Auto MAWP/MASP - TOC high - 19686.20 ft	1.678		2.566		1.824	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Fixed Mud Drop Collapse - 19686.20 ft		1.806	4.123	5.743	3.038	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Well Kill - TOC High - 19686.20 ft	2.254		2.980		2.421	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	MCBU MAWOP - 2000 psi - burst - TOC hi - 8452.96 ft	1.913		2.972		2.036	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Pressure Test - TOC High - 8452.96 ft	2.765		2.986	44.540	2.739	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Green Cement Pressure Test	2.845		2.595		2.590	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Overpull			2.142		2.129	1.592	N/A
9.875'' (Casing)	8-5/8" 32 lb/ft BTC-SC L80-IC, MCBU	Initial Conditions		3.360	4.000	7.398	3.896	1.592	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Hibnes Special Ops	1.209		C 2.241		1.308	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	MCBU MAWOP - 2000 psi - collapse - 19686.20 ft		1.614	C 7.927	C 1.926	2.272	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Pressure Test - TOC High - 19686.20 ft	1.209		C 2.216		1.282	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Green Cement Pressure Test	1.199		C 1.607		1.299	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Overpull			C 2.193		2.636	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Initial Conditions		10.820	C 4.429	C 3.126	5.300	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Evacuated Collapse - 19686.20 ft		1.359	C 6.246	C 1.864	1.946	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Frac job - TOC High - 19686.20 ft	1.182		C 1.904		1.274	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Hot Tubing Leak - TOC High - 19686.20 ft	3.013	926.727	C 3.592	C 3.376	3.104	10.074	N/A
6.75'' (Production Casing)	5-1/2", 17 lb/ft, P110-ICY, W451, MCBU	Tubing Leak - TOC High - 19686.20 ft	3.013	926.727	C 3.163	C 3.376	3.083	10.074	N/A



CASING TRIAXIAL: 10.75", 40.5#, J55, BTC, MCBU (28.5 – 500.5 ft)



CASING TRIAXIAL: 8.625" 32 lb/ft L80IC W521 - MCBU (28.5 – 8452.96 ft)



CASING TRIAXIAL: 5-1/2", 17 lb/ft, P110-ICY, W451, MCBU (28.5 – 19686.2 ft)

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Chevron USA, Inc.

Project: Eddy County, NM (NAD27 NME)
Site: HNM Pad 49
Well: Screwball 30-19 Federal Com No. 457H
Wellbore: OH-56069
Design: Plan 1
Rig: Nabors X47

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Azimuths to Grid North
True North: -0.05°
Magnetic North: 6.58°

Magnetic Field
Strength: 46955.4nT
Dip Angle: 59.57°
Date: 7/15/2026
Model: BGGM2025

WELL DETAILS

GL 3229ft + RKB 32.5ft @ 3262.50usft (Nabors X47)

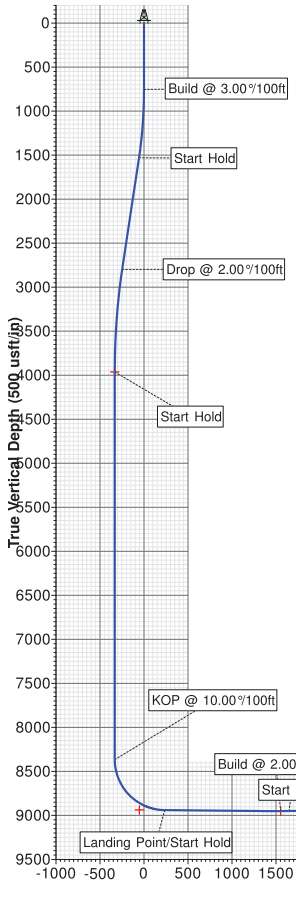
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	398115.59	531076.41	32° 5' 40.19 N	104° 13' 58.74 W

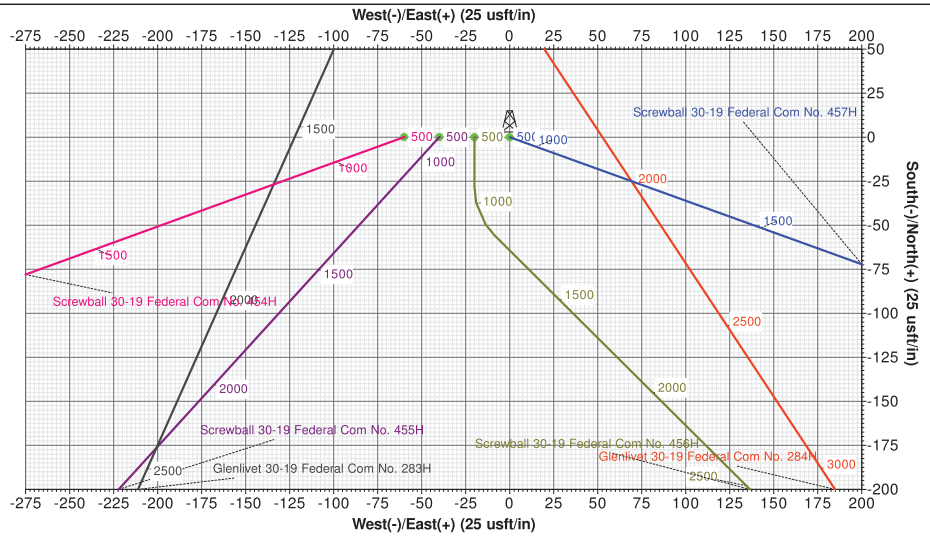
SECTION DETAILS

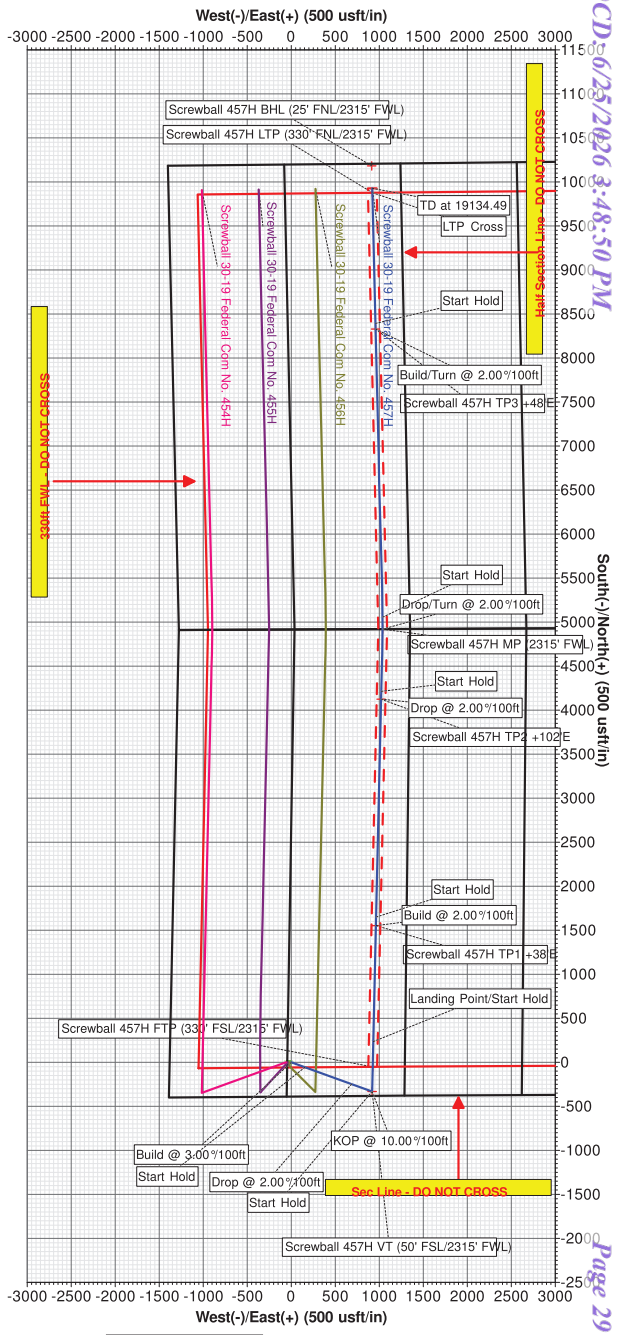
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
754.00	0.00	0.00	754.00	0.00	0.00	0.00	0.00	0.00	Build @ 3.00°/100ft
1553.86	24.00	109.83	1530.69	-55.99	155.27	3.00	109.83	-56.04	Start Hold
2941.04	24.00	109.83	2797.97	-247.35	685.95	0.00	0.00	-247.58	Drop @ 2.00°/100ft
4140.83	0.00	0.00	3963.00	-331.33	918.87	2.00	180.00	-331.65	Start Hold
8544.98	0.00	0.00	8367.15	-331.33	918.87	0.00	0.00	-331.65	KOP @ 10.00°/100ft
9439.58	89.46	1.31	8940.08	236.08	931.82	10.00	1.31	235.75	Landing Point/Start Hold
10757.35	89.46	1.31	8952.50	1553.44	961.89	0.00	0.00	1553.10	Build @ 2.00°/100ft
10854.09	91.39	1.31	8951.78	1650.15	964.10	2.00	0.00	1649.81	Start Hold
13330.37	91.39	1.31	8891.50	4125.05	1020.60	0.00	0.00	4124.70	Drop @ 2.00°/100ft
13419.46	89.61	1.31	8890.72	4214.11	1022.63	2.00	-180.00	4213.75	Start Hold
14126.44	89.61	1.31	8895.49	4920.89	1038.77	0.00	0.00	4920.53	Drop/Turn @ 2.00°/100ft
14262.25	89.54	358.59	8896.49	5056.68	1038.65	2.00	-91.45	5056.32	Start Hold
17535.16	89.54	358.59	8922.50	8328.51	958.25	0.00	0.00	8328.17	Build/Turn @ 2.00°/100ft
17600.03	90.84	358.65	8922.28	8393.35	956.69	2.00	2.44	8393.02	Start Hold
19084.49	90.84	358.65	8900.50	9877.24	921.66	0.00	0.00	9876.92	LTP Cross
19134.49	90.84	358.65	8899.77	9927.22	920.48	0.00	0.00	9926.90	TD at 19134.49

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Screwball 457H VT (50' FSL/2315' FWL)	3963.00	-331.33	918.87	397784.26	531995.28	32° 5' 36.90 N	104° 13' 48.06 W
Screwball 457H TP2 +102'E	8891.50	4125.05	1020.60	402240.64	532097.01	32° 6' 21.00 N	104° 13' 46.82 W
Screwball 457H MP (2315' FWL)	8895.49	4920.89	1038.77	403036.48	532115.18	32° 6' 28.88 N	104° 13' 46.60 W
Screwball 457H BHL (25' FNL/2315' FWL)	8900.50	10182.18	914.45	408297.77	531990.86	32° 7' 20.95 N	104° 13' 47.99 W
Screwball 457H LTP (330' FNL/2315' FWL)	8900.50	9877.24	921.66	407992.83	531998.07	32° 7' 17.93 N	104° 13' 47.91 W
Screwball 457H TP3 +48'E	8922.50	8328.51	958.25	406444.10	532034.66	32° 7' 2.60 N	104° 13' 47.50 W
Screwball 457H FTP (330' FSL/2315' FWL)	8937.50	-51.27	925.26	398064.32	532001.67	32° 5' 39.67 N	104° 13' 47.98 W
Screwball 457H TP1 +38'E	8952.50	1553.44	961.89	399669.03	532038.30	32° 5' 55.55 N	104° 13' 47.54 W







Created By: Stuart Fleming
Date: 12:48, March 25 2026

HALLIBURTON | Sperry Drilling

HNM Pad 49

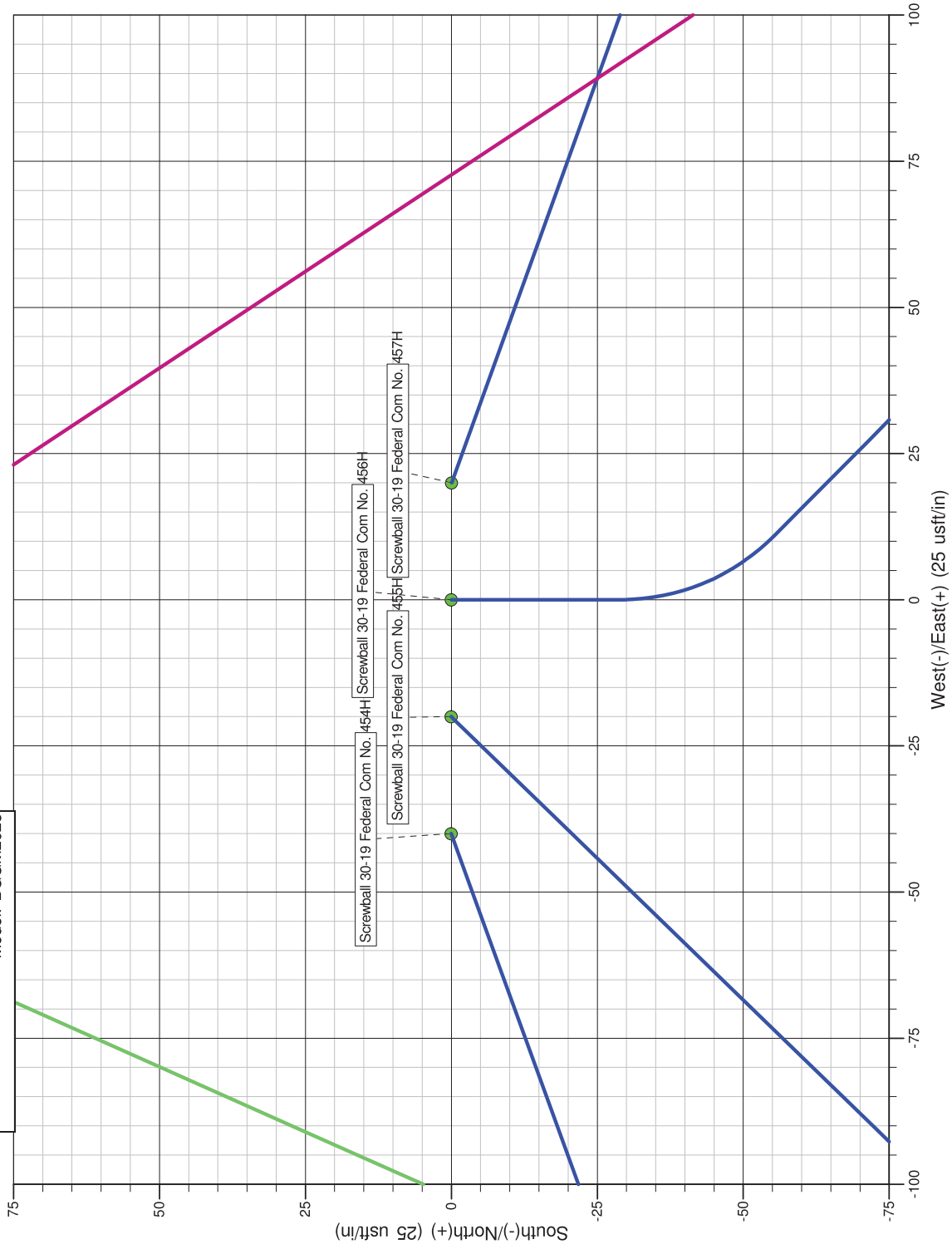
SITE DETAILS: HNM Pad 49	
Site Centre	Northing: 398115.67 Easting: 531016.41
Positional Uncertainty:	5.00
Convergence:	0.05
	Local North: Grid

PROJECT DETAILS: Eddy County, NM (NAD27 NME)	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

T G M

Azimuths to Grid North
True North: -0.05°
Magnetic North: 6.56°

Magnetic Field
Strength: 46955.4nT
Dip Angle: 59.57°
Date: 7/15/2026
Model: BGGM2025



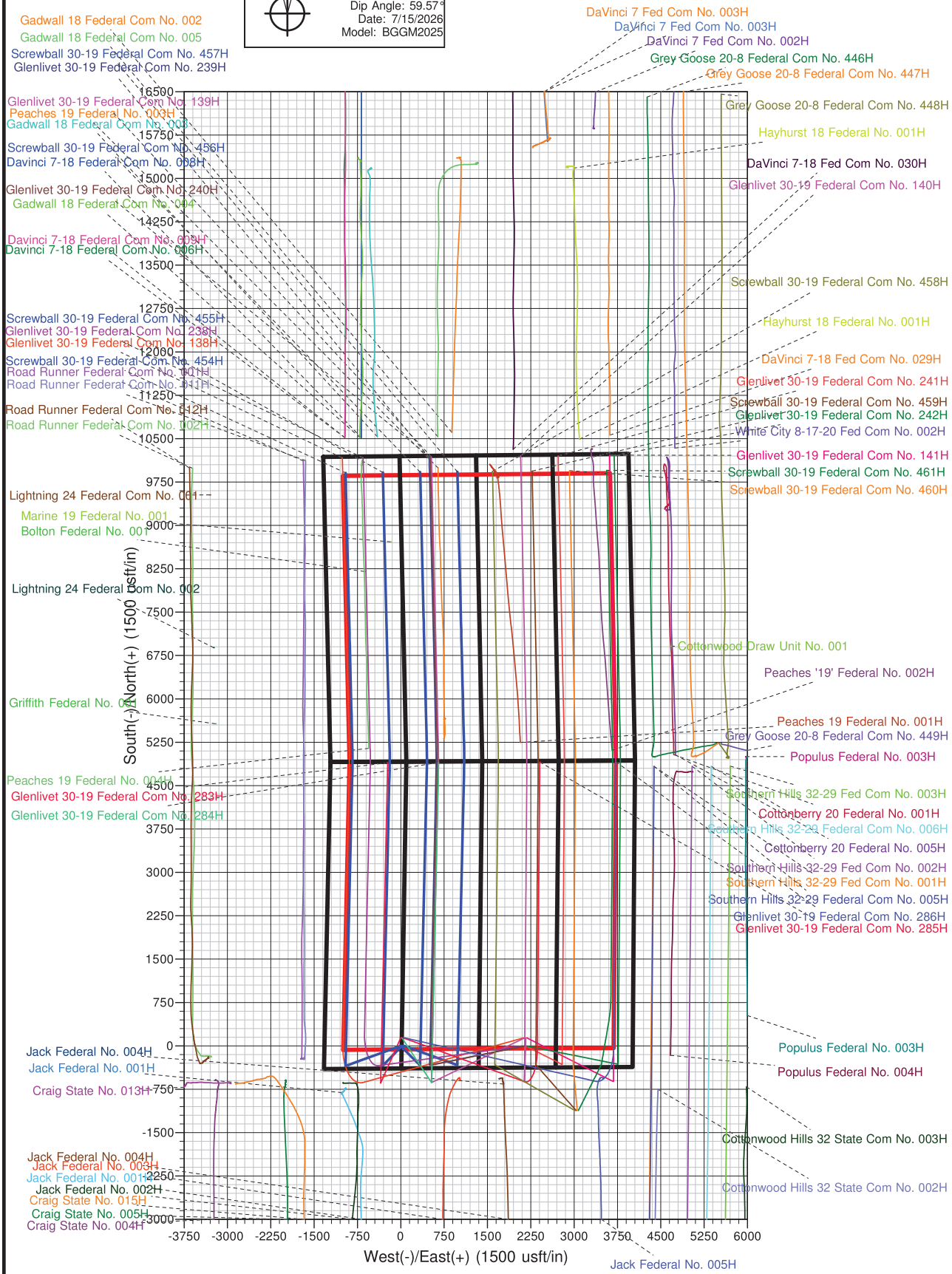
NM Pad 49

PROJECT DETAILS: Eddy County, NM (NAD27 NME)	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

T G M

Azimuths to Grid North
True North: -0.05°
Magnetic North: 6.56°

Strength: 46955.3nT
Dip Angle: 59.57°
Date: 7/15/2026
Model: BGGM2025



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Nabors X47

Chevron USA, Inc.

Eddy County, NM (NAD27 NME) HNM Pad 49

API# 30-015-56069

Screwball 30-19 Federal Com No. 457H

OH-56069

Plan: Plan 1

Sperry Drilling Services

Combo Report

25 March, 2026

Well Coordinates:	32° 5' 40.19 N 104° 13' 58.74 W	NAD 1927 (NADCON CONUS) New Mexico East 3001 398,115.59 N 531,076.41 E

Ground Level: 3,230.00 usft

Local Coordinate Origin:	Centered on Well Screwball 30-19 Federal Com No. 457H
Viewing Datum:	GL 3229ft + RKB 32.5ft @ 3262.50usft (Nabors X47)
TVDs to System:	N
North Reference:	**Grid**
Unit System:	API-US Survey Feet

Compass Version: 5000.17 Build: 04

Report Version: Midcon Combo v1.15

HALLIBURTON

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
0.00	0.00	0.00	0.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
454.00	0.00	0.00	454.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	10-3/4" Surface Casing
500.00	0.00	0.00	500.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	
754.00	0.00	0.00	754.00	0.00 N	0.00 E	398,115.59	531,076.41	0.00	0.00	0.00	Build @ 3.00°/100ft
800.00	1.38	109.83	800.00	0.19 S	0.52 E	398,115.40	531,076.93	3.00	-0.19	109.83	
900.00	4.38	109.83	899.86	1.89 S	5.25 E	398,113.70	531,081.66	3.00	-1.89	0.00	
1,000.00	7.38	109.83	999.32	5.37 S	14.88 E	398,110.22	531,091.29	3.00	-5.37	0.00	
1,100.00	10.38	109.83	1,098.11	10.60 S	29.40 E	398,104.99	531,105.81	3.00	-10.61	0.00	
1,200.00	13.38	109.83	1,195.96	17.58 S	48.77 E	398,098.01	531,125.18	3.00	-17.60	0.00	
1,300.00	16.38	109.83	1,292.59	26.29 S	72.92 E	398,089.30	531,149.33	3.00	-26.32	0.00	
1,400.00	19.38	109.83	1,387.75	36.71 S	101.80 E	398,078.88	531,178.21	3.00	-36.74	0.00	
1,500.00	22.38	109.83	1,481.17	48.80 S	135.32 E	398,066.79	531,211.73	3.00	-48.84	0.00	
1,553.86	24.00	109.83	1,530.69	55.99 S	155.27 E	398,059.60	531,231.68	3.00	-56.04	0.00	Start Hold
1,600.00	24.00	109.83	1,572.83	62.35 S	172.92 E	398,053.24	531,249.33	0.00	-62.41	180.00	
1,700.00	24.00	109.83	1,664.19	76.15 S	211.18 E	398,039.44	531,287.59	0.00	-76.22	0.00	
1,800.00	24.00	109.83	1,755.55	89.94 S	249.44 E	398,025.65	531,325.85	0.00	-90.03	0.00	
1,843.73	24.00	109.83	1,795.50	95.98 S	266.17 E	398,019.61	531,342.58	0.00	-96.07	0.00	Base of Salt
1,900.00	24.00	109.83	1,846.91	103.74 S	287.69 E	398,011.85	531,364.10	0.00	-103.84	0.00	
2,000.00	24.00	109.83	1,938.26	117.53 S	325.95 E	397,998.06	531,402.36	0.00	-117.65	0.00	
2,057.18	24.00	109.83	1,990.50	125.42 S	347.82 E	397,990.17	531,424.23	0.00	-125.54	0.00	LMAR
2,100.00	24.00	109.83	2,029.62	131.33 S	364.21 E	397,984.26	531,440.62	0.00	-131.45	0.00	
2,110.81	24.00	109.83	2,039.50	132.82 S	368.34 E	397,982.77	531,444.75	0.00	-132.95	0.00	BEL
2,200.00	24.00	109.83	2,120.98	145.12 S	402.46 E	397,970.47	531,478.87	0.00	-145.26	0.00	
2,300.00	24.00	109.83	2,212.34	158.92 S	440.72 E	397,956.67	531,517.13	0.00	-159.07	0.00	
2,400.00	24.00	109.83	2,303.69	172.71 S	478.97 E	397,942.88	531,555.38	0.00	-172.88	0.00	
2,500.00	24.00	109.83	2,395.05	186.51 S	517.23 E	397,929.08	531,593.64	0.00	-186.69	0.00	
2,600.00	24.00	109.83	2,486.41	200.30 S	555.49 E	397,915.29	531,631.90	0.00	-200.49	0.00	
2,700.00	24.00	109.83	2,577.77	214.10 S	593.74 E	397,901.49	531,670.15	0.00	-214.30	0.00	
2,800.00	24.00	109.83	2,669.12	227.89 S	632.00 E	397,887.70	531,708.41	0.00	-228.11	0.00	
2,900.00	24.00	109.83	2,760.48	241.68 S	670.25 E	397,873.91	531,746.66	0.00	-241.92	0.00	

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
2,941.04	24.00	109.83	2,797.97	247.35 S	685.95 E	397,868.24	531,762.36	0.00	-247.58	0.00	Drop @ 2.00°/100ft
3,000.00	22.82	109.83	2,852.08	255.29 S	707.99 E	397,860.30	531,784.40	2.00	-255.54	180.00	
3,023.20	22.35	109.83	2,873.50	258.31 S	716.37 E	397,857.28	531,792.78	2.00	-258.56	180.00	CHR
3,100.00	20.82	109.83	2,944.91	267.90 S	742.95 E	397,847.69	531,819.36	2.00	-268.16	-180.00	
3,200.00	18.82	109.83	3,038.99	279.40 S	774.84 E	397,836.19	531,851.25	2.00	-279.67	180.00	
3,300.00	16.82	109.83	3,134.19	289.77 S	803.62 E	397,825.82	531,880.03	2.00	-290.05	180.00	
3,400.00	14.82	109.83	3,230.40	299.02 S	829.26 E	397,816.57	531,905.67	2.00	-299.31	180.00	
3,500.00	12.82	109.83	3,327.50	307.12 S	851.72 E	397,808.47	531,928.13	2.00	-307.42	-180.00	
3,600.00	10.82	109.83	3,425.37	314.06 S	870.98 E	397,801.53	531,947.39	2.00	-314.37	180.00	
3,700.00	8.82	109.83	3,523.90	319.85 S	887.02 E	397,795.74	531,963.43	2.00	-320.16	180.00	
3,800.00	6.82	109.83	3,622.97	324.46 S	899.82 E	397,791.13	531,976.23	2.00	-324.78	180.00	
3,900.00	4.82	109.83	3,722.45	327.90 S	909.35 E	397,787.69	531,985.76	2.00	-328.22	180.00	
4,000.00	2.82	109.83	3,822.22	330.16 S	915.61 E	397,785.43	531,992.02	2.00	-330.48	180.00	
4,100.00	0.82	109.83	3,922.17	331.23 S	918.59 E	397,784.36	531,995.00	2.00	-331.55	180.00	
4,136.33	0.09	109.83	3,958.50	331.33 S	918.86 E	397,784.26	531,995.27	2.00	-331.65	-180.00	BCN
4,140.83	0.00	0.00	3,963.00	331.33 S	918.87 E	397,784.26	531,995.28	2.00	-331.65	-180.00	Start Hold - Screwball 457H VT (50' FSL/2315' FWL)
4,200.00	0.00	0.00	4,022.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	180.00	
4,300.00	0.00	0.00	4,122.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
4,400.00	0.00	0.00	4,222.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
4,500.00	0.00	0.00	4,322.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
4,600.00	0.00	0.00	4,422.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
4,700.00	0.00	0.00	4,522.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
4,800.00	0.00	0.00	4,622.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
4,900.00	0.00	0.00	4,722.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,000.00	0.00	0.00	4,822.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,100.00	0.00	0.00	4,922.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,200.00	0.00	0.00	5,022.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,300.00	0.00	0.00	5,122.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,400.00	0.00	0.00	5,222.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,500.00	0.00	0.00	5,322.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,600.00	0.00	0.00	5,422.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,700.00	0.00	0.00	5,522.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,771.33	0.00	0.00	5,593.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	BSL
5,800.00	0.00	0.00	5,622.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
5,872.33	0.00	0.00	5,694.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	AVU
5,900.00	0.00	0.00	5,722.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,000.00	0.00	0.00	5,822.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
6,100.00	0.00	0.00	5,922.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,200.00	0.00	0.00	6,022.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,240.33	0.00	0.00	6,062.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	AVL
6,300.00	0.00	0.00	6,122.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,400.00	0.00	0.00	6,222.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,500.00	0.00	0.00	6,322.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,600.00	0.00	0.00	6,422.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,662.33	0.00	0.00	6,484.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	FBU
6,700.00	0.00	0.00	6,522.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,800.00	0.00	0.00	6,622.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
6,862.33	0.00	0.00	6,684.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	FBL
6,900.00	0.00	0.00	6,722.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,000.00	0.00	0.00	6,822.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,100.00	0.00	0.00	6,922.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,182.33	0.00	0.00	7,004.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	SBU
7,200.00	0.00	0.00	7,022.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,300.00	0.00	0.00	7,122.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,400.00	0.00	0.00	7,222.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,500.00	0.00	0.00	7,322.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,600.00	0.00	0.00	7,422.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,665.33	0.00	0.00	7,487.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	SBL
7,700.00	0.00	0.00	7,522.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,800.00	0.00	0.00	7,622.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
7,900.00	0.00	0.00	7,722.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,000.00	0.00	0.00	7,822.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,100.00	0.00	0.00	7,922.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,200.00	0.00	0.00	8,022.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,300.00	0.00	0.00	8,122.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,310.33	0.00	0.00	8,132.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	TB1C
8,319.83	0.00	0.00	8,142.00	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	8-5/8" Intermediate Casing
8,400.00	0.00	0.00	8,222.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,500.00	0.00	0.00	8,322.17	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	
8,526.33	0.00	0.00	8,348.50	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	TBS
8,544.98	0.00	0.00	8,367.15	331.33 S	918.87 E	397,784.26	531,995.28	0.00	-331.65	0.00	KOP @ 10.00°/100ft
8,550.00	0.50	1.31	8,372.17	331.31 S	918.87 E	397,784.28	531,995.28	10.00	-331.63	1.31	
8,600.00	5.50	1.31	8,422.08	328.69 S	918.93 E	397,786.90	531,995.34	10.00	-329.01	0.00	
8,650.00	10.50	1.31	8,471.58	321.74 S	919.09 E	397,793.85	531,995.50	10.00	-322.06	0.00	

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Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
8,700.00	15.50	1.31	8,520.28	310.49 S	919.34 E	397,805.10	531,995.75	10.00	-310.81	0.00	
8,750.00	20.50	1.31	8,567.82	295.05 S	919.69 E	397,820.54	531,996.10	10.00	-295.37	0.00	
8,800.00	25.50	1.31	8,613.83	275.52 S	920.14 E	397,840.07	531,996.55	10.00	-275.84	0.00	
8,850.00	30.50	1.31	8,657.96	252.06 S	920.68 E	397,863.53	531,997.09	10.00	-252.38	0.00	
8,893.42	34.84	1.31	8,694.50	228.64 S	921.21 E	397,886.95	531,997.62	10.00	-228.96	0.00	WCA
8,900.00	35.50	1.31	8,699.88	224.84 S	921.30 E	397,890.75	531,997.71	10.00	-225.17	0.00	
8,950.00	40.50	1.31	8,739.27	194.08 S	922.00 E	397,921.51	531,998.41	10.00	-194.40	0.00	
9,000.00	45.50	1.31	8,775.82	160.00 S	922.78 E	397,955.59	531,999.19	10.00	-160.32	0.00	
9,050.00	50.50	1.31	8,809.27	122.86 S	923.63 E	397,992.73	532,000.04	10.00	-123.18	0.00	
9,100.00	55.50	1.31	8,839.35	82.95 S	924.54 E	398,032.64	532,000.95	10.00	-83.27	0.00	
9,150.00	60.50	1.31	8,865.83	40.57 S	925.50 E	398,075.02	532,001.91	10.00	-40.90	0.00	
9,173.01	62.80	1.31	8,876.76	20.33 S	925.97 E	398,095.26	532,002.38	10.00	-20.65	0.00	Screwball 457H FTP (330' FSL/2315' FWL)
9,200.00	65.50	1.31	8,888.53	3.95 N	926.52 E	398,119.54	532,002.93	10.00	3.63	0.00	
9,241.93	69.69	1.31	8,904.50	42.70 N	927.41 E	398,158.29	532,003.82	10.00	42.37	0.00	WCA1
9,250.00	70.50	1.31	8,907.25	50.29 N	927.58 E	398,165.88	532,003.99	10.00	49.96	0.00	
9,300.00	75.50	1.31	8,921.86	98.07 N	928.67 E	398,213.66	532,005.08	10.00	97.75	0.00	
9,350.00	80.50	1.31	8,932.25	146.95 N	929.79 E	398,262.54	532,006.20	10.00	146.63	0.00	
9,400.00	85.50	1.31	8,938.34	196.55 N	930.92 E	398,312.14	532,007.33	10.00	196.23	0.00	
9,439.58	89.46	1.31	8,940.08	236.08 N	931.82 E	398,351.67	532,008.23	10.00	235.75	0.00	Landing Point/Start Hold
9,500.00	89.46	1.31	8,940.65	296.48 N	933.20 E	398,412.07	532,009.61	0.00	296.15	0.00	
9,600.00	89.46	1.31	8,941.59	396.45 N	935.48 E	398,512.04	532,011.89	0.00	396.12	0.00	
9,700.00	89.46	1.31	8,942.54	496.42 N	937.76 E	398,612.01	532,014.17	0.00	496.09	0.00	
9,800.00	89.46	1.31	8,943.48	596.39 N	940.05 E	398,711.98	532,016.46	0.00	596.06	0.00	
9,900.00	89.46	1.31	8,944.42	696.36 N	942.33 E	398,811.95	532,018.74	0.00	696.03	0.00	
10,000.00	89.46	1.31	8,945.36	796.33 N	944.61 E	398,911.92	532,021.02	0.00	796.00	0.00	
10,100.00	89.46	1.31	8,946.31	896.29 N	946.89 E	399,011.88	532,023.30	0.00	895.96	0.00	
10,200.00	89.46	1.31	8,947.25	996.26 N	949.17 E	399,111.85	532,025.58	0.00	995.93	0.00	
10,300.00	89.46	1.31	8,948.19	1,096.23 N	951.46 E	399,211.82	532,027.87	0.00	1,095.90	0.00	
10,400.00	89.46	1.31	8,949.13	1,196.20 N	953.74 E	399,311.79	532,030.15	0.00	1,195.87	0.00	
10,500.00	89.46	1.31	8,950.07	1,296.17 N	956.02 E	399,411.76	532,032.43	0.00	1,295.84	0.00	
10,600.00	89.46	1.31	8,951.02	1,396.14 N	958.30 E	399,511.73	532,034.71	0.00	1,395.81	0.00	
10,700.00	89.46	1.31	8,951.96	1,496.11 N	960.59 E	399,611.70	532,037.00	0.00	1,495.78	0.00	
10,757.35	89.46	1.31	8,952.50	1,553.44 N	961.89 E	399,669.03	532,038.30	0.00	1,553.10	0.00	Build @ 2.00°/100ft - Screwball 457H TP1 +38'E - Screwball 457H TP1
10,800.00	90.31	1.31	8,952.58	1,596.08 N	962.87 E	399,711.67	532,039.28	2.00	1,595.75	0.00	
10,854.09	91.39	1.31	8,951.78	1,650.15 N	964.10 E	399,765.74	532,040.51	2.00	1,649.81	0.00	Start Hold
10,900.00	91.39	1.31	8,950.66	1,696.04 N	965.15 E	399,811.63	532,041.56	0.00	1,695.70	0.00	

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11,000.00	91.39	1.31	8,948.23	1,795.98 N	967.43 E	399,911.57	532,043.84	0.00	1,795.64	0.00	
11,100.00	91.39	1.31	8,945.79	1,895.92 N	969.71 E	400,011.51	532,046.12	0.00	1,895.59	0.00	
11,200.00	91.39	1.31	8,943.36	1,995.87 N	971.99 E	400,111.46	532,048.40	0.00	1,995.53	0.00	
11,300.00	91.39	1.31	8,940.92	2,095.81 N	974.28 E	400,211.40	532,050.69	0.00	2,095.47	0.00	
11,400.00	91.39	1.31	8,938.49	2,195.76 N	976.56 E	400,311.35	532,052.97	0.00	2,195.42	0.00	
11,500.00	91.39	1.31	8,936.06	2,295.70 N	978.84 E	400,411.29	532,055.25	0.00	2,295.36	0.00	
11,600.00	91.39	1.31	8,933.62	2,395.65 N	981.12 E	400,511.24	532,057.53	0.00	2,395.30	0.00	
11,700.00	91.39	1.31	8,931.19	2,495.59 N	983.40 E	400,611.18	532,059.81	0.00	2,495.25	0.00	
11,800.00	91.39	1.31	8,928.75	2,595.54 N	985.68 E	400,711.13	532,062.09	0.00	2,595.19	0.00	
11,900.00	91.39	1.31	8,926.32	2,695.48 N	987.97 E	400,811.07	532,064.38	0.00	2,695.13	0.00	
12,000.00	91.39	1.31	8,923.88	2,795.42 N	990.25 E	400,911.01	532,066.66	0.00	2,795.08	0.00	
12,100.00	91.39	1.31	8,921.45	2,895.37 N	992.53 E	401,010.96	532,068.94	0.00	2,895.02	0.00	
12,200.00	91.39	1.31	8,919.02	2,995.31 N	994.81 E	401,110.90	532,071.22	0.00	2,994.96	0.00	
12,300.00	91.39	1.31	8,916.58	3,095.26 N	997.09 E	401,210.85	532,073.50	0.00	3,094.91	0.00	
12,400.00	91.39	1.31	8,914.15	3,195.20 N	999.37 E	401,310.79	532,075.78	0.00	3,194.85	0.00	
12,500.00	91.39	1.31	8,911.71	3,295.15 N	1,001.66 E	401,410.74	532,078.07	0.00	3,294.80	0.00	
12,600.00	91.39	1.31	8,909.28	3,395.09 N	1,003.94 E	401,510.68	532,080.35	0.00	3,394.74	0.00	
12,700.00	91.39	1.31	8,906.84	3,495.03 N	1,006.22 E	401,610.62	532,082.63	0.00	3,494.68	0.00	
12,800.00	91.39	1.31	8,904.41	3,594.98 N	1,008.50 E	401,710.57	532,084.91	0.00	3,594.63	0.00	
12,900.00	91.39	1.31	8,901.98	3,694.92 N	1,010.78 E	401,810.51	532,087.19	0.00	3,694.57	0.00	
13,000.00	91.39	1.31	8,899.54	3,794.87 N	1,013.06 E	401,910.46	532,089.47	0.00	3,794.51	0.00	
13,100.00	91.39	1.31	8,897.11	3,894.81 N	1,015.35 E	402,010.40	532,091.76	0.00	3,894.46	0.00	
13,200.00	91.39	1.31	8,894.67	3,994.76 N	1,017.63 E	402,110.35	532,094.04	0.00	3,994.40	0.00	
13,300.00	91.39	1.31	8,892.24	4,094.70 N	1,019.91 E	402,210.29	532,096.32	0.00	4,094.34	0.00	
13,330.37	91.39	1.31	8,891.50	4,125.05 N	1,020.60 E	402,240.64	532,097.01	0.00	4,124.70	0.00	Drop @ 2.00°/100ft - Screwball 457H TP2 - Screwball 457H TP2 +102'E
13,400.00	90.00	1.31	8,890.65	4,194.66 N	1,022.19 E	402,310.25	532,098.60	2.00	4,194.30	-180.00	
13,419.46	89.61	1.31	8,890.72	4,214.11 N	1,022.63 E	402,329.70	532,099.04	2.00	4,213.75	-180.00	Start Hold
13,500.00	89.61	1.31	8,891.26	4,294.63 N	1,024.47 E	402,410.22	532,100.88	0.00	4,294.27	0.00	
13,600.00	89.61	1.31	8,891.94	4,394.60 N	1,026.76 E	402,510.19	532,103.17	0.00	4,394.24	0.00	
13,700.00	89.61	1.31	8,892.61	4,494.57 N	1,029.04 E	402,610.16	532,105.45	0.00	4,494.21	0.00	
13,800.00	89.61	1.31	8,893.29	4,594.55 N	1,031.32 E	402,710.14	532,107.73	0.00	4,594.18	0.00	
13,900.00	89.61	1.31	8,893.96	4,694.52 N	1,033.60 E	402,810.11	532,110.01	0.00	4,694.16	0.00	
14,000.00	89.61	1.31	8,894.64	4,794.49 N	1,035.88 E	402,910.08	532,112.29	0.00	4,794.13	0.00	
14,100.00	89.61	1.31	8,895.31	4,894.46 N	1,038.17 E	403,010.05	532,114.58	0.00	4,894.10	0.00	
14,126.44	89.61	1.31	8,895.49	4,920.89 N	1,038.77 E	403,036.48	532,115.18	0.00	4,920.53	0.00	Drop/Turn @ 2.00°/100ft - Screwball 457H MP (2315' FWL)
14,200.00	89.58	359.84	8,896.01	4,994.45 N	1,039.50 E	403,110.04	532,115.91	2.00	4,994.08	-91.45	

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14,262.25	89.54	358.59	8,896.49	5,056.68 N	1,038.65 E	403,172.27	532,115.06	2.00	5,056.32	-91.44	Start Hold
14,300.00	89.54	358.59	8,896.79	5,094.42 N	1,037.72 E	403,210.01	532,114.13	0.00	5,094.06	0.00	
14,400.00	89.54	358.59	8,897.58	5,194.39 N	1,035.27 E	403,309.98	532,111.68	0.00	5,194.03	0.00	
14,500.00	89.54	358.59	8,898.38	5,294.36 N	1,032.81 E	403,409.95	532,109.22	0.00	5,294.00	0.00	
14,600.00	89.54	358.59	8,899.17	5,394.32 N	1,030.35 E	403,509.91	532,106.76	0.00	5,393.96	0.00	
14,700.00	89.54	358.59	8,899.97	5,494.29 N	1,027.90 E	403,609.88	532,104.31	0.00	5,493.93	0.00	
14,800.00	89.54	358.59	8,900.76	5,594.26 N	1,025.44 E	403,709.85	532,101.85	0.00	5,593.90	0.00	
14,900.00	89.54	358.59	8,901.56	5,694.22 N	1,022.99 E	403,809.81	532,099.40	0.00	5,693.87	0.00	
15,000.00	89.54	358.59	8,902.35	5,794.19 N	1,020.53 E	403,909.78	532,096.94	0.00	5,793.83	0.00	
15,100.00	89.54	358.59	8,903.15	5,894.16 N	1,018.07 E	404,009.75	532,094.48	0.00	5,893.80	0.00	
15,200.00	89.54	358.59	8,903.94	5,994.12 N	1,015.62 E	404,109.71	532,092.03	0.00	5,993.77	0.00	
15,300.00	89.54	358.59	8,904.74	6,094.09 N	1,013.16 E	404,209.68	532,089.57	0.00	6,093.74	0.00	
15,400.00	89.54	358.59	8,905.53	6,194.06 N	1,010.70 E	404,309.65	532,087.11	0.00	6,193.70	0.00	
15,500.00	89.54	358.59	8,906.33	6,294.02 N	1,008.25 E	404,409.61	532,084.66	0.00	6,293.67	0.00	
15,600.00	89.54	358.59	8,907.12	6,393.99 N	1,005.79 E	404,509.58	532,082.20	0.00	6,393.64	0.00	
15,700.00	89.54	358.59	8,907.91	6,493.96 N	1,003.33 E	404,609.55	532,079.74	0.00	6,493.61	0.00	
15,800.00	89.54	358.59	8,908.71	6,593.92 N	1,000.88 E	404,709.51	532,077.29	0.00	6,593.57	0.00	
15,900.00	89.54	358.59	8,909.50	6,693.89 N	998.42 E	404,809.48	532,074.83	0.00	6,693.54	0.00	
16,000.00	89.54	358.59	8,910.30	6,793.86 N	995.96 E	404,909.45	532,072.37	0.00	6,793.51	0.00	
16,100.00	89.54	358.59	8,911.09	6,893.82 N	993.51 E	405,009.41	532,069.92	0.00	6,893.48	0.00	
16,200.00	89.54	358.59	8,911.89	6,993.79 N	991.05 E	405,109.38	532,067.46	0.00	6,993.44	0.00	
16,300.00	89.54	358.59	8,912.68	7,093.76 N	988.60 E	405,209.35	532,065.01	0.00	7,093.41	0.00	
16,400.00	89.54	358.59	8,913.48	7,193.72 N	986.14 E	405,309.31	532,062.55	0.00	7,193.38	0.00	
16,500.00	89.54	358.59	8,914.27	7,293.69 N	983.68 E	405,409.28	532,060.09	0.00	7,293.35	0.00	
16,600.00	89.54	358.59	8,915.07	7,393.66 N	981.23 E	405,509.25	532,057.64	0.00	7,393.31	0.00	
16,700.00	89.54	358.59	8,915.86	7,493.62 N	978.77 E	405,609.21	532,055.18	0.00	7,493.28	0.00	
16,800.00	89.54	358.59	8,916.66	7,593.59 N	976.31 E	405,709.18	532,052.72	0.00	7,593.25	0.00	
16,900.00	89.54	358.59	8,917.45	7,693.56 N	973.86 E	405,809.15	532,050.27	0.00	7,693.22	0.00	
17,000.00	89.54	358.59	8,918.25	7,793.52 N	971.40 E	405,909.11	532,047.81	0.00	7,793.18	0.00	
17,100.00	89.54	358.59	8,919.04	7,893.49 N	968.94 E	406,009.08	532,045.35	0.00	7,893.15	0.00	
17,200.00	89.54	358.59	8,919.84	7,993.46 N	966.49 E	406,109.05	532,042.90	0.00	7,993.12	0.00	
17,300.00	89.54	358.59	8,920.63	8,093.42 N	964.03 E	406,209.01	532,040.44	0.00	8,093.09	0.00	
17,400.00	89.54	358.59	8,921.43	8,193.39 N	961.57 E	406,308.98	532,037.98	0.00	8,193.05	0.00	
17,500.00	89.54	358.59	8,922.22	8,293.36 N	959.12 E	406,408.95	532,035.53	0.00	8,293.02	0.00	
17,535.16	89.54	358.59	8,922.50	8,328.51 N	958.25 E	406,444.10	532,034.66	0.00	8,328.17	0.00	Build/Turn @ 2.00°/100ft - Screwball 457H TP3 +48'E
17,535.19	89.54	358.59	8,922.50	8,328.53 N	958.25 E	406,444.12	532,034.66	0.00	8,328.20	0.00	Screwball 457H TP3
17,600.03	90.84	358.65	8,922.28	8,393.35 N	956.69 E	406,508.94	532,033.10	2.00	8,393.02	2.44	Start Hold

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
17,700.00	90.84	358.65	8,920.81	8,493.29 N	954.33 E	406,608.88	532,030.74	0.00	8,492.95	0.00	
17,800.00	90.84	358.65	8,919.35	8,593.25 N	951.97 E	406,708.84	532,028.38	0.00	8,592.91	0.00	
17,900.00	90.84	358.65	8,917.88	8,693.21 N	949.61 E	406,808.80	532,026.02	0.00	8,692.88	0.00	
18,000.00	90.84	358.65	8,916.41	8,793.17 N	947.25 E	406,908.76	532,023.66	0.00	8,792.84	0.00	
18,100.00	90.84	358.65	8,914.95	8,893.13 N	944.89 E	407,008.72	532,021.30	0.00	8,892.80	0.00	
18,200.00	90.84	358.65	8,913.48	8,993.09 N	942.53 E	407,108.68	532,018.94	0.00	8,992.76	0.00	
18,300.00	90.84	358.65	8,912.01	9,093.05 N	940.17 E	407,208.64	532,016.58	0.00	9,092.73	0.00	
18,400.00	90.84	358.65	8,910.54	9,193.02 N	937.81 E	407,308.61	532,014.22	0.00	9,192.69	0.00	
18,500.00	90.84	358.65	8,909.08	9,292.98 N	935.45 E	407,408.57	532,011.86	0.00	9,292.65	0.00	
18,600.00	90.84	358.65	8,907.61	9,392.94 N	933.09 E	407,508.53	532,009.50	0.00	9,392.61	0.00	
18,700.00	90.84	358.65	8,906.14	9,492.90 N	930.73 E	407,608.49	532,007.14	0.00	9,492.57	0.00	
18,800.00	90.84	358.65	8,904.67	9,592.86 N	928.37 E	407,708.45	532,004.78	0.00	9,592.54	0.00	
18,900.00	90.84	358.65	8,903.21	9,692.82 N	926.01 E	407,808.41	532,002.42	0.00	9,692.50	0.00	
19,000.00	90.84	358.65	8,901.74	9,792.78 N	923.65 E	407,908.37	532,000.06	0.00	9,792.46	0.00	
19,084.49	90.84	358.65	8,900.50	9,877.24 N	921.66 E	407,992.83	531,998.07	0.00	9,876.92	0.00	LTP Cross - Screwball 457H LTP (330' FNL/2315' FWL)
19,100.00	90.84	358.65	8,900.27	9,892.75 N	921.29 E	408,008.34	531,997.70	0.00	9,892.42	0.00	
19,124.49	90.84	358.65	8,899.91	9,917.23 N	920.72 E	408,032.82	531,997.13	0.00	9,916.91	0.00	5-1/2" Production Liner
19,134.49	90.84	358.65	8,899.77	9,927.22 N	920.48 E	408,042.81	531,996.89	0.00	9,926.90	0.00	TD at 19134.49 - Screwball 457H BHL (25' FNL/2315' FWL)

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
754.00	754.00	0.00	0.00	Build @ 3.00°/100ft
1,553.86	1,530.69	-55.99	155.27	Start Hold
2,941.04	2,797.97	-247.35	685.95	Drop @ 2.00°/100ft
4,140.83	3,963.00	-331.33	918.87	Start Hold
8,544.98	8,367.15	-331.33	918.87	KOP @ 10.00°/100ft
9,439.58	8,940.08	236.08	931.82	Landing Point/Start Hold
10,757.35	8,952.50	1,553.44	961.89	Build @ 2.00°/100ft
10,854.09	8,951.78	1,650.15	964.10	Start Hold
13,330.37	8,891.50	4,125.05	1,020.60	Drop @ 2.00°/100ft
13,419.46	8,890.72	4,214.11	1,022.63	Start Hold
14,126.44	8,895.49	4,920.89	1,038.77	Drop/Turn @ 2.00°/100ft
14,262.25	8,896.49	5,056.68	1,038.65	Start Hold
17,535.16	8,922.50	8,328.51	958.25	Build/Turn @ 2.00°/100ft
17,600.03	8,922.28	8,393.35	956.69	Start Hold
19,084.49	8,900.50	9,877.24	921.66	LTP Cross
19,134.49	8,899.77	9,927.22	920.48	TD at 19134.49

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	359.98	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	454.00	Plan 1	3_MWD+IFR1+Sag
454.00	8,319.83	Plan 1	3_MWD+IFR1+MS+Sag
8,319.83	19,134.49	Plan 1	3_MWD+IFR1+MS+Sag

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
454.00	454.00	10-3/4" Surface Casing	10.750	17.500
8,319.83	8,142.00	8-5/8" Intermediate Casing	8.625	9.875
19,124.49	8,899.91	5-1/2" Production Liner	5.500	7.875

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,843.73	1,795.50	-1,467.00	Base of Salt			
2,057.18	1,990.50	-1,272.00	LMAR			
2,110.81	2,039.50	-1,223.00	BEL			
3,023.20	2,873.50	-389.00	CHR			
4,136.33	3,958.50	696.00	BCN			
5,771.33	5,593.50	2,331.00	BSL			
5,872.33	5,694.50	2,432.00	AVU			
6,240.33	6,062.50	2,800.00	AVL			
6,662.33	6,484.50	3,222.00	FBU			
6,862.33	6,684.50	3,422.00	FBL			
7,182.33	7,004.50	3,742.00	SBU			
7,665.33	7,487.50	4,225.00	SBL			
8,310.33	8,132.50	4,870.00	TB1C			
8,526.33	8,348.50	5,086.00	TBS			
8,893.42	8,694.50	5,432.00	WCA			
9,241.93	8,904.50	5,642.00	WCA1			

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Screwball 457H VT (50' FSL/2315' FWL) ()									
	0.00	0.00	3,963.00	-331.33	918.87	397,784.26	531,995.28	32° 5' 36.90 N	104° 13' 48.06 W
- plan hits target center - Point									
Screwball 457H TP2 +102'E ()									
	0.00	0.00	8,891.50	4,125.05	1,020.60	402,240.64	532,097.01	32° 6' 21.00 N	104° 13' 46.82 W
- plan hits target center - Point									
Screwball 457H MP (2315' FWL) ()									
	0.00	0.00	8,895.49	4,920.89	1,038.77	403,036.48	532,115.18	32° 6' 28.88 N	104° 13' 46.60 W
- plan hits target center - Point									
Screwball 457H BHL (25' FNL/2315' FWL) ()									
	0.00	0.00	8,900.50	10,182.18	914.45	408,297.77	531,990.86	32° 7' 20.95 N	104° 13' 47.99 W
- plan misses target center by 255.03usft at 19134.49usft MD (8899.77 TVD, 9927.22 N, 920.48 E) - Point									
Screwball 457H LTP (330' FNL/2315' FWL) ()									
	0.00	0.00	8,900.50	9,877.24	921.66	407,992.83	531,998.07	32° 7' 17.93 N	104° 13' 47.91 W
- plan hits target center - Point									
Screwball 457H TP3 +48'E ()									
	0.00	0.00	8,922.50	8,328.51	958.25	406,444.10	532,034.66	32° 7' 2.60 N	104° 13' 47.50 W
- plan hits target center - Point									
Screwball 457H FTP (330' FSL/2315' FWL) ()									
	0.00	0.00	8,937.50	-51.27	925.26	398,064.32	532,001.67	32° 5' 39.67 N	104° 13' 47.98 W
- plan misses target center by 68.17usft at 9173.01usft MD (8876.76 TVD, -20.33 N, 925.97 E) - Point									
Screwball 457H TP1 +38'E ()									
	0.00	0.00	8,952.50	1,553.44	961.89	399,669.03	532,038.30	32° 5' 55.55 N	104° 13' 47.54 W
- plan hits target center - Point									

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Plan Report for Screwball 30-19 Federal Com No. 457H - Plan 1

Directional Difficulty Index

Average Dogleg over Survey:	0.76 °/100ft	Maximum Dogleg over Survey:	10.00 °/100ft at 9,439.58 usft
Net Tortousity applicable to Plans:	0.76 °/100ft	Directional Difficulty Index:	6.732

Audit Info

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North Reference Sheet for HNM Pad 49 - Screwball 30-19 Federal Com No. 457H - OH-56069

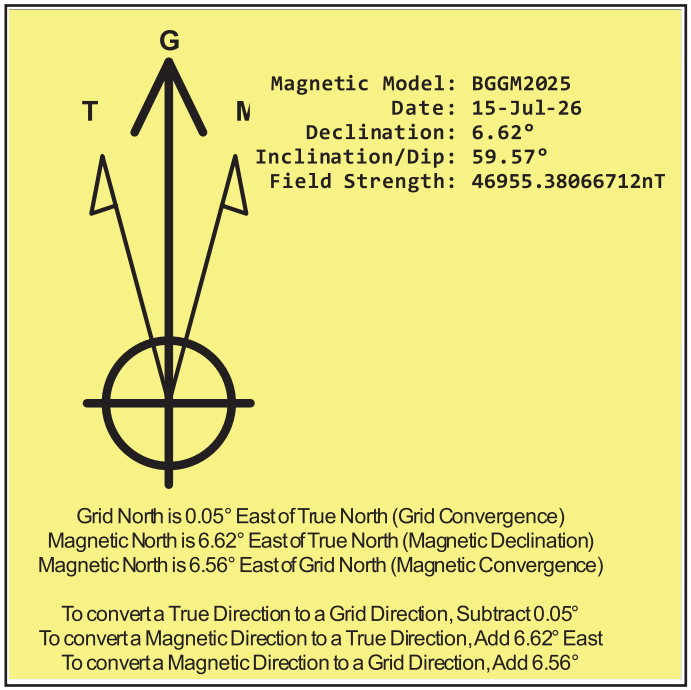
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to GL 3229ft + RKB 32.5ft @ 3262.50usft (Nabors X47). Northing and Easting are relative to Screwball 30-19 Federal Com No. 457H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866
Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is 104° 20' 0.00 W°, Longitude Origin:0° 0' 0.00 E°, Latitude Origin:0° 0' 0.00 N°
False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99991020

Grid Coordinates of Well: 398,115.59 usft N, 531,076.41 usft E
Geographical Coordinates of Well: 32° 5' 40.19 N, 104° 13' 58.74 W
Grid Convergence at Surface is: 0.05°

Based upon Minimum Curvature type calculations, at a Measured Depth of 19,134.49usft
the Bottom Hole Displacement is 9,969.80usft in the Direction of 5.30° (Grid).

Magnetic Convergence at surface is: -6.56° (15 July 2026, , BGGM2025)



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 599592

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 599592
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue.	7/8/2026
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	7/8/2026