

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF ENDURING RESOURCES,
LLC FOR APPROVAL OF THE BOBBY B UNIT,
RIO ARriba COUNTY, NEW MEXICO**

Case No. 26365

PRE-HEARING STATEMENT OF EPIC ENERGY, LCC

Epic Energy, LLC (“Epic”) provides its Pre-Hearing Statement (“PHS”) as required by Rule 19.15.4.13(B) NMAC. This Statement addresses issues Epic intends to raise in opposition to Applicant Enduring Resources, LLC’s (“Enduring”) application for approval of the Bobby B federal exploratory unit and proposed expansion.

APPEARANCES

APPLICANT

Enduring Resources, LLC

ATTORNEYS

Michael H. Feldewert
Adam G. Rankin
Paula M. Vance
A. Raylee Starnes
P.O. Box 2208
Santa Fe, NM 87504
mfeldewert@hollandhart.com
agrankin@hollandhart.com
pmvance@hollandhart.com
astarnes@hollandhart.com

OPPONENT

Epic Energy, LLC

ATTORNEYS

Matthew M. Beck
Peifer, Hanson, Mullins & Baker, P.A.
P.O. Box 25245
Albuquerque, NM 87125-5245
mbeck@peiferlaw.com

Jamie L. Jost
Jost Energy Law, P.C.
3511 Ringsby Court, Unit 103
Denver, CO 80216

jjost@jostenergylaw.com

OTHER APPEARANCES

PRO SE

Brandon D. Whitley

Brandon D. Whitley
bdwhitley@gmail.com

Jesse John Whitley

Jesse John Whitley
JesseWhitley04@gmail.com

Aaron Dale Kent

Aaron Dale Kent
aaronkent@stiaenergy.com

STATEMENT OF THE CASE

Enduring's application should be denied because the proposed wells in this proposed Unit threaten environmental harm, will cause waste, and impair correlative rights.

By way of background, Enduring filed its application for approval of the Bobby B federal exploratory unit and proposed expansion in Case No. 26365, which is currently set for a hearing on September 15, 2026. Enduring seeks an order from the Division approving the Bobby B unit in Rio Arriba County, New Mexico. The proposed Bobby B Unit Agreement applies to new horizontal and multi-lateral wells only, and excludes all existing wells within the Unit Area. Enduring incorrectly contends that the Unit Agreement is in the best interests of "conservation, the prevention of waste, and the protection of correlative rights."

On July 17, 2026, Enduring sent Epic a package which included:

- A cover letter to "affected parties" advising that Enduring was seeking the Division's approval of the Bobby B Unit.
- The Application, including Exhibits A and B thereto.

This application should not be viewed in a vacuum. Enduring's own recent conduct in seeking approval to drill new wells within the very Bobby B Unit it now asks the Division to approve demonstrates that the Application should not be granted unless and until the Division

addresses Enduring's disregard of the Division's notice rules and of its own Anticollision Report's warnings.

For more than a year, Epic has repeatedly requested that Enduring comply with the Division's well-application notice requirements and provide Epic advance notice before commencing drilling of any well where Epic has an offsetting well within the area of concern.

On July 30, 2026, Epic filed its Objection and Entries of Appearance in this case.

On August 13, 2026, Epic filed applications to revoke several of Enduring's drilling permits in the Lybrook Units and the Ridge Unit. *See* Case Nos. 26450-62.

On August 20, 2026, the Division held a status conference in this matter and set a contested hearing for September 15, 2026. On August 21, 2026, the Division filed the Pre-Hearing Order for this matter.

On August 27, 2026, Enduring sent an email to Epic, carbon copying several individuals from the BLM and the Division, titled "Notice of Drilling Operations: Bobby B 040H," advising Epic and the others that it anticipates mobilizing a drilling rig "to the Bobby B 040H pad." Ex. 1. The email does not include any information about what wells Enduring plans to drill or the timing of drilling any wells from the well pad, and it includes no APDs. This bare notice does not give Epic – or any other offsetting well operator – the information needed to plan and perform the wellbore integrity and mitigation work that must be done in advance of nearby drilling operations in order to protect existing wellbores from the kind of damage described below.

Because Enduring's email left Epic in the dark, Epic reviewed the Division's public records to identify the APDs for wells that Enduring anticipates drilling from the Bobby B 040H pad. Those APDs confirm that Enduring has continued its reckless drilling practices in the very Unit it now asks the Division to approve, including flagrant defiance of the Division's notice Rules

19.15.16.15(A)(9) and 19.15.15.12(B) NMAC, and disregard of its own Anticollision Report's warnings of dangerous proximity to existing wells.

By way of example, Enduring plans to drill the Bobby B 047H (API No. 30-039-31539).

The Bobby B 047H APD is marked "Confidential," having been received by the Division on July 8, 2026, and was made public only after Division approval. Ex. 2, at 1, 81. In violation of Division Rules 19.15.16.15(A)(9) and 19.15.15.12(B) NMAC, Enduring did not provide Epic with the required pre-filing notice, and did not include in the Bobby B 047H APD the required affirmation of proper notice. *Id.*; see 19.15.15.12(B)(3)(a) NMAC. As a result, Epic had no notice of the Bobby B 047H APD and no opportunity to alert the BLM or the Division to the serious collision dangers in the planned Bobby B 047H before the Division approved the APD.

The Bobby B 047H APD's Anticollision Report includes offsetting existing wells operated by parties other than Enduring, including Epic's existing wells. Crucially, the Anticollision Report shows anti-collision warnings for several active Epic wells, including a separation factor of less than 1.00 for four of those wells, under which drilling should not proceed.¹ *Id.*

¹ Two wellbores are compared using a "separation factor" (SF): the distance between the two wells' surveyed centerlines divided by the combined size of their two ellipses of uncertainty at a given confidence level. A SF below 1.0 means the two ellipses of uncertainty physically overlap — a technical collision risk. The ISCWSA Collision Avoidance Work Group characterizes collision avoidance policies as defining "escalating corrective actions" at multiple SF thresholds as perceived collision probability increases ISCWSA Collision Avoidance Work Group, *Collision Avoidance Calculations – Current Common Practice*, § 2.13 (Oct. 2017)). Consistent with that framework, experience across the industry recognizes three tiers: SF above 2 = no risk in drilling collision, SF between 1.5 and 2 (level 3 warning) = acceptable/low risk; SF between 1.0 and 1.5 (level 2 warning) = caution/buffer zone requiring management review or written exemption before drilling continues; SF at or below 1.0 (level 1 warning) = drilling must stop, and an active offset producing or injection well is generally shut in until the risk is resolved. B. Poedjono et al. (Schlumberger), A Comprehensive Approach to Well-Collision Avoidance AADE-07-NTCE-28 (2007) (retrieved July 23, 2026, from <https://www.aade.org/application/files/4415/7303/7675/AADE-07-NTCE-28.pdf>).

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 14 T24N R07W						
Pre Ongard 001 - No surveys - No surveys	18,494.88	5,805.13	685.91	149.70	1.279	Level 3<2.00, CC
Pre Ongard 001 - No surveys - No surveys	18,500.00	5,805.17	685.93	149.53	1.279	Level 3<2.00, ES, SF
Sec 23 T24N R07W						
Byrd 001 - Orig hole - No surveys	16,700.00	5,674.74	1,306.95	817.44	2.670	CC
Byrd 001 - Orig hole - No surveys	16,704.45	5,674.78	1,306.95	817.36	2.669	ES, SF
Sec 24 T24N R07W						
Grace Federal 24 001R - Orig hole - Inc only surveys	15,339.62	5,620.43	79.82	-304.41	0.208	Level 3<2.00, CC, ES, SF
Grace Federal 24 002 - Orig hole - Inc only surveys	14,098.03	5,542.70	171.45	-156.58	0.523	Level 3<2.00, CC, ES, SF
Lybrook Fed 005 - Orig hole - Inc only surveys	11,013.98	5,569.87	175.24	-104.70	0.626	Level 3<2.00, CC, ES, SF
Pre ongard 001 (Grace Federal 24) - Orig hole - Inc only	14,859.29	5,582.86	364.42	-10.36	0.972	Level 3<2.00, CC, ES, SF
Pre ongard 001 (Reynolds Killamey 24) - Orig hole - No s	11,991.61	5,556.01	400.46	24.53	1.065	Level 3<2.00, CC, ES, SF
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,663.45	5,805.40	1,044.87	651.37	2.855	CC, ES
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,700.00	5,805.69	1,045.51	651.53	2.654	SF
Sec 30 T24N R08W						
Bobby B 040H - Orig hole - rev0	500.00	500.00	40.15	36.73	11.752	CC, ES
Bobby B 040H - Orig hole - rev0	600.00	599.95	42.66	38.53	10.325	SF
Bobby B 041H - Orig hole - rev0	500.00	500.00	19.91	16.50	5.828	CC, ES
Bobby B 041H - Orig hole - rev0	20,288.42	20,192.02	1,185.12	494.56	1.716	Level 3<2.00, SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	139.84	136.42	40.933	CC, ES
Bobby B 042H - Orig hole - rev0	700.00	685.57	158.91	154.13	33.247	SF
Bobby B 043H - Orig hole - rev0	500.00	500.00	119.92	116.51	35.104	CC, ES
Bobby B 043H - Orig hole - rev0	800.00	792.46	144.81	139.26	26.115	SF
Bobby B 044H - Orig hole - rev0	500.00	500.00	100.01	96.60	29.276	CC, ES
Bobby B 044H - Orig hole - rev0	800.00	798.77	122.76	117.19	22.022	SF
Bobby B 045H - Orig hole - rev0	5,453.36	5,465.56	70.10	30.70	1.779	Level 3<2.00, CC, ES, SF
Bobby B 046H - Orig hole - rev0	1,919.68	1,952.14	41.39	25.36	2.582	CC, ES, SF
Rincon 001 - Orig hole - Inc only surveys	6,858.80	5,594.96	136.69	-34.10	0.800	Level 3<2.00, CC, ES, SF
Rincon 002 - Orig hole - Inc only surveys	4,899.02	4,801.56	599.65	480.24	5.022	CC
Rincon 002 - Orig hole - Inc only surveys	5,100.00	5,002.58	801.17	477.33	4.854	ES
Rincon 002 - Orig hole - Inc only surveys	5,300.00	5,195.67	615.58	487.29	4.798	SF

Despite the obvious dangers identified in the Bobby B 047H APD, Epic believes that Enduring did not change the drilling plan and intends to drill this well that Enduring's own Anticollision Report identified as unsafe. Because Enduring denied Epic the notice the Division's rules require, Epic had no opportunity to raise these dangers with the BLM or the Division before the Bobby B 047H APD was approved – precisely the outcome the Division's notice Rules are designed to prevent.

In addition to the threat that Enduring's plans pose to Epic, Enduring's plan to drill the Bobby B 047H well – among the other Bobby B wells Enduring plans to drill in the applied-for Bobby B Unit without adequate notice to Epic – also presents obvious environmental harm. Drilling a well that violates Enduring's own Anticollision Report Separation Factor warning parameters may cause surface and subsurface spills and will likely damage and render inoperable Epic's existing wells that Enduring's own analysis has identified as unacceptable collision risks.

Environmental spills and damage to active wells cause waste and impair Epic's (and others') correlative rights.

If the Division does not address Enduring's dangerous drilling practices in the Bobby B wells by declining to approve the Bobby B Unit Application, approval will cause waste, including waste of hydrocarbons and harm to the environment, and will impair correlative rights, including by damaging beyond repair Epic's active wells. This exact scenario happened before with Enduring's Ridge Unit.

On May 30, 2019, the Division filed Order No. R-20594, approving the Unit Agreement for the Development and Operation of the Ridge Unit Area, establishing the Ridge Unit. While Enduring was drilling its horizontal Ridge Unit 135H well (API No. 30-045-38417) within feet of Epic's South Blanco Federal 22 #5 ("SBF 22-5") (API No. 30-045-34260), Enduring's drilling fluid directly breached Epic's wellbore. Over 400 barrels of Enduring's drilling fluid violently flooded into SBF 22-5, surging up the casing and completely overflowing Epic's surface storage tanks. This caused an uncontrolled surface release of over 40 barrels of crude oil onto surrounding public lands – a Major Undesirable Event under BLM NTL-3A and Division rules. When Enduring was cementing the production liner in place, it appears that cement migrated into the SBF 22-5 wellbore, which in turn cemented the production tubing and pump/rods into place. SBF 22-5 was completely destroyed as a producing asset and required hundreds of thousands of dollars in remediation costs. Enduring's drilling and stimulation in the Ridge Unit also adversely affected and/or completely destroyed Epic's South Blanco Federal 23 #3 (API No. 30-045-28163) and South Blanco Federal 23 #4 (API No. 30-045-28280).

This disaster happened in part because Enduring flouted the same notice rules it is flouting again in the Bobby B Unit. Enduring submitted the Ridge Unit 135H APD for Division approval,

as “Confidential,” Enduring gave Epic no notice and included no attestation of notice in the APD as Rules 19.15.16.15(A)(9) and 19.15.15.12(B) NMAC require, and the APD was made public only after it was approved. The Ridge Unit 135H APD, like the Bobby B 047H APD, failed to plan around, address, or mitigate the proposed horizontal well’s collision risks with existing wells, including Epic’s. Because Enduring ignored the Division’s notice Rules 19.15.16.15(A)(9) and 19.15.15.12(B) NMAC, no offset operator – including Epic – had any opportunity to object to the APD or to warn the Division and BLM of the collision risk that, months later, caused the spill described above.

This is an example of what will happen again if the Division approves the Bobby B Unit, or approves the Unit without requiring Enduring to comply with the Division’s notice Rules for the individual wells Enduring may propose for the Bobby B Unit. Given Enduring’s demonstrated practices, the Division cannot properly conclude that approval of the Bobby B Unit, which will lead to the drilling of wells like the Bobby B 047H without adequate notice to offset operators, is in the best interests of “conservation, the prevention of waste, and the protection of correlative rights” as Enduring claims in its Application.

EPIC’S OBJECTIONS TO THE BOBBY B UNIT APPLICATION

The application should be denied because Enduring’s historical and current practices in applying for approvals to drill wells within its existing Units show that approval of the Bobby B Unit will result in environmental harm, cause waste, and impair correlative rights. The Division’s Rules 19.15.16.15(A)(9) and 19.15.15.12(B) NMAC required Enduring to give notice to Epic of previous wells in Enduring’s Division-approved Units for which Enduring sought Division approval; Enduring failed to comply with these rules and provided no notice to Epic of its applications. The failure to provide notice as required by the Division’s Rules has led to irreparable

damage to Epic's wells, which impaired Epic's correlative rights. The failure to provide notice as required by the Division's Rules led to Enduring drilling so near to Epic's active wells that it caused environmental damage and waste. Because Enduring has continued these practices at least through its application to drill the Bobby B 047H in this proposed Bobby B Unit, approval of the Bobby B Unit will cause waste and impair correlative rights. The Division should therefore deny the Application for approval of the Bobby B Unit. In the alternative, if the Division is inclined to approve the Bobby B Unit, then the Division's Order should ensure that the Division's approval avoids waste and protects correlative rights by explicitly requiring, before submission of each APD to the BLM and the Division: (1) advance notice to every operator of an offset well within the applicable area of concern; (2) disclosure of the complete planned trajectory and anti-collision analysis; (3) independent resolution of every separation factor at or below 1.0; (4) coordinated well-protection and monitoring plans; and (5) prompt notice of any material change in drilling or completion design, sequence, or timing.

PROPOSED EVIDENCE

Epic will present evidence of Enduring's failures to comply with the Division's notice Rules 19.15.16.15(A)(9) and 19.15.15.12(B) NMAC, including for APDs submitted for wells in the proposed Bobby B Unit. And Epic will present evidence of waste and impairment of correlative rights by Enduring in operation of its Units by damage to Epic's existing wells.

WITNESSES

EST. TIME EXHIBITS

Mark Thompson (Operations Engineer)

45 minutes 10 approx.

Respectfully submitted,

PEIFER, HANSON, MULLINS & BAKER, P.A.

By: /s/ Matthew M. Beck

Matthew M. Beck

P.O. Box 25245

Albuquerque, NM 87125-5245

Tel: (505) 247-4800

Fax: (505) 243-6458

Email: mbeck@peiferlaw.com

-and-

Jost Energy Law, P.C.

Jamie L. Jost

3511 Ringsby Court, Unit 103

Denver, CO 80216

Tel: (707) 446-5620

Email: jjost@jostenergylaw.com

Attorneys for Epic Energy, LLC

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served on counsel of record and the below parties by electronic mail this 9th day of September, 2026.

Michael H. Feldewert

Adam G. Rankin

Paula M. Vance

A Raylee Starnes

Holland & Hart, LLP

P.O. Box 2208

Santa Fe, NM 87504

(505) 988-4421

mfeldewert@hollandhart.com

agrarkin@hollandhart.com

pmvance@hollandhart.com

arstarnes@hollandhart.com

Attorneys for Enduring Resources, LLC

Brandon D. Whitley
bdwhitley@gmail.com

Jesse John Whitley
JesseWhitley04@gmail.com

Aaron Dale Kent
aaronkent@stiaenergy.com

PEIFER, HANSON, MULLINS & BAKER, P.A.

/s/ Matthew M. Beck

Matthew M. Beck

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF ENDURING RESOURCES,
LLC FOR APPROVAL OF THE BOBBY B UNIT,
RIO ARriba COUNTY, NEW MEXICO**

Case No. 26365

PRE-HEARING STATEMENT OF EPIC ENERGY, LCC

Exhibit Index

NO.	TITLE	PDF PAGE BEGINS
1.	Enduring Email re Notice of Bobby B Pad Drilling (8-27-26)	12
2.	Bobby B 047H APD – Approved (8-10-26)	15
3.	Testimony of Mark Thompson (9-8-26)	95
4.	Mark Thompson Resume	105
5.	Bobby B 040H Anticollision Report (4-23-26)	106
6.	Bobby B 041H Anticollision Report (4-23-26)	109
7.	Bobby B 043H Anticollision Report (4-23-26)	113
8.	Bobby B 045H Anticollision Report (4-23-26)	116
9.	Bobby B 040H Well Pad Diagram	119
10.	Brandon Powell Email to Enduring re Actions (8-18-25)	120

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

From: Shaw-Marie Ford <sford@enduringresources.com>

Sent: Thursday, August 27, 2026 4:29 PM

To: Arleen Smith <arleen@walsheng.net>; John Thompson <john@walsheng.net>; Kyle Mason <kyle@walsheng.net>; Paul Thompson <paul@walsheng.net>; Shawna Martinez <shawna@walsheng.net>; Vern Andrews <vern@walsheng.net>; Alex Campbell <ACampbell@enduringresources.com>; Andy Lee <RLee@enduringresources.com>; Bobby McCracken <BMcCracken@enduringresources.com>; Brian Bess <BBess@enduringresources.com>; Bryan Martinez <bmartinez@enduringresources.com>; Casey Haga <chaga@enduringresources.com>; Chris Longwell <CLongwell@enduringresources.com>; Cody McInnes <RMcInnes@enduringresources.com>; Dave Brown <dbrown@enduringresources.com>; David Rogers <DRogers@enduringresources.com>; Doug Sprague <DSprague@enduringresources.com>; Elizabeth Jimenez <EJimenez@enduringresources.com>; Ellen Warp <EWarp@enduringresources.com>; Greg Olson <golson@enduringresources.com>; Heather Huntington <Hhuntington@enduringresources.com>; Jason Herbig <jherbig@enduringresources.com>; Jennifer Korinek <jkorinek@enduringresources.com>; John Conley <JConley@enduringresources.com>; Johnny Stinson <jstinson@enduringresources.com>; Jonathan Archuleta <JArchuleta@enduringresources.com>; Kelsey Jones <kjones@enduringresources.com>; Kyle Walter <KWalter@enduringresources.com>; Lindsey Lain <llain@enduringresources.com>; Luke Kirk <LKirk@enduringresources.com>; Melissa Pavlantos <MPavlantos@enduringresources.com>; Monica Yazzie <myazzie@enduringresources.com>; Perry Ritter <pritter@enduringresources.com>; Ryan McGilvery <rmcgilvery@enduringresources.com>; Sean Owens <SOwens@enduringresources.com>; Stephan Bertsch



<sbertsch@enduringresources.com>; Steven Merrell <smerrell@enduringresources.com>; Tim Friesenhahn <TFriesenhahn@enduringresources.com>; Travis Whitham <TWhitham@enduringresources.com>
Cc: Christopher Wenman <cwenman@blm.gov>; Jeff Tafoya <JTafoya@blm.gov>; Joe, Maureen A <mjoe@blm.gov>; John Durham <John.Durham@emnrd.nm.gov>; John Garcia <JohnA.Garcia@emnrd.nm.gov>; Justin Wrinkle <Justin.Wrinkle@emnrd.nm.gov>; Mankiewicz, David J <dmankiew@blm.gov>; OCD Engineer <ocd.engineer@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Thomas Vermersch <Thomas.Vermersch@emnrd.nm.gov>; Virgil Lucero <vlucero@blm.gov>
Subject: Notice of Drilling Operations: Bobby B 040H

To whom it may concern,

Enduring anticipates a drilling rig will begin to mobilize around September 6, 2026, to the Bobby B 040H pad located in the NESW Section 30, Township 24N, Range 6W. Information disclosed in this notification plan of operations contemplated by Enduring includes well(s) operated by your company within 660' on either side of our proposed horizontal laterals. This email is intended only to advise you of our activities.

Should you have any questions or wish to discuss this matter further, please respond to the email address above.

Thank you

Shaw Valadez
Regulatory Specialist
505.716.3297 | sford@enduringresources.com

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

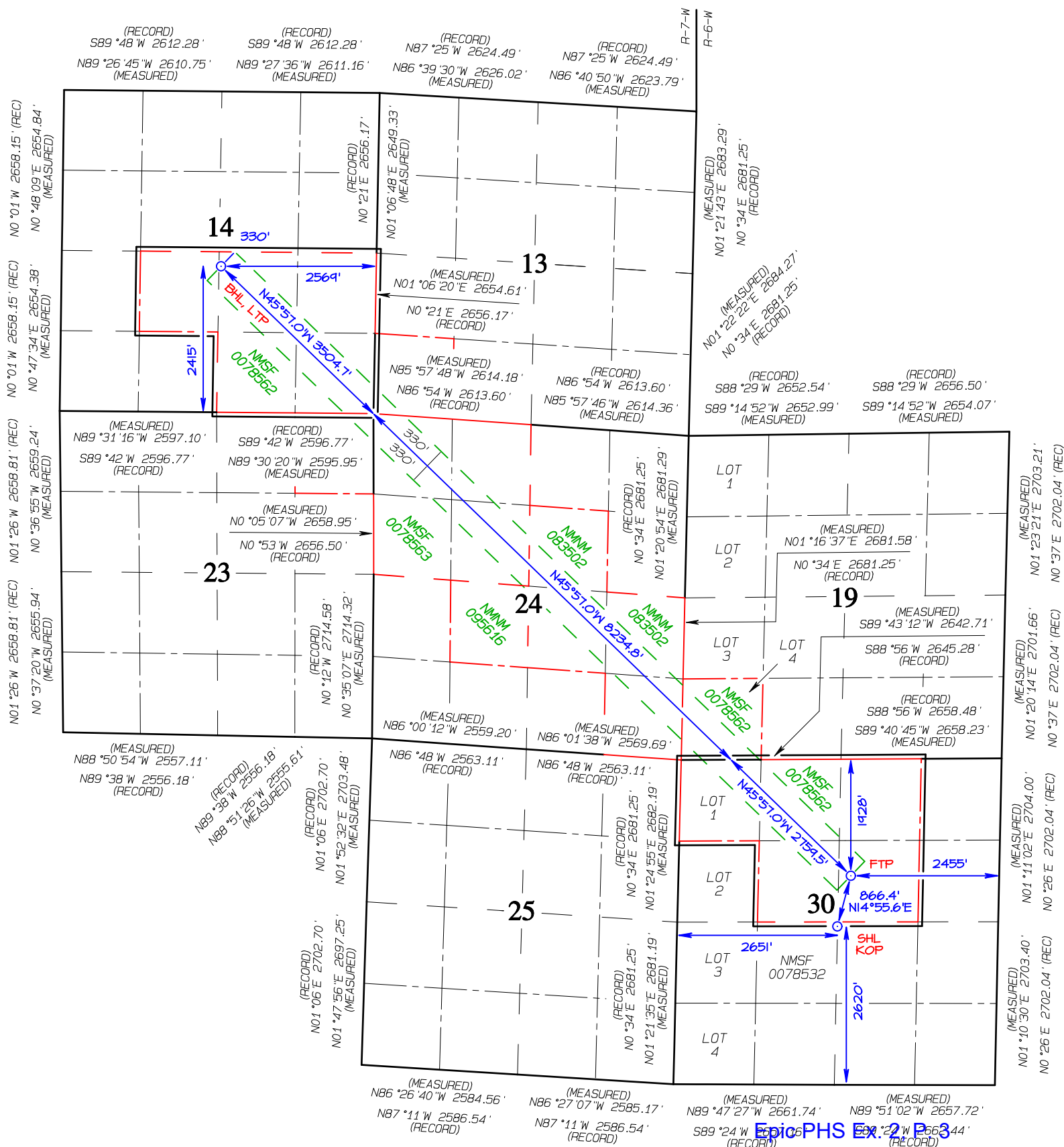
1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-039-31539
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		
Application approval 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. Conditions of approval, if any, are attached.		
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.		

(Continued on page 2)

*(Instructions on page 2)
Epic PHS Ex. 2, P. 1

SURFACE LOCATION (SHL)
2620' FSL 2651' FWL
SECTION 30, T24N, R6W

LAT 36.282647°N
LONG -107.510108°W
DATUM: NAD1983



C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-039-31539	Pool Code 17610	Pool Name DEVILS FORK GALLUP (ASSOCIATED)
Property Code 339202	Property Name BOBBY B	Well Number 047H
OGRID No. 372286	Operator Name ENDURING RESOURCES, LLC	Ground Level Elevation 6665 '
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL K	Section 30	Township 24N	Range 6W	Lot	Feet from N/S Line 2620' SOUTH	Feet from E/W Line 2651' WEST	Latitude 36.282647 °N	Longitude -107.510108 °W	County RIO ARRIBA
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Bottom Hole Location

UL J	Section 14	Township 24N	Range 7W	Lot	Feet from N/S Line 2415' SOUTH	Feet from E/W Line 2569' EAST	Latitude 36.312263 °N	Longitude -107.545196 °W	County RIO ARRIBA
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Dedicated Acres 479.64	Penetrated Spacing Unit SW/4 SW/4 - Section 19, T24N, R6W E/2 SE/4, NW/4 SE/4, NE/4 SW/4 SW/4 NE/4, NW/4 - Section 24, T24N, R7W NE/4 NE/4 - Section 23, T24N, R7W SW/4 SW/4 - Section 13, T24N, R7W	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit ☐ Yes ☐ No	Consolidation Code Exploratory Unit Expansion Pending
Order Numbers Case No. 26365 NSP & COM Pending			Well setbacks are under Common Ownership ☐ Yes ☐ No		

Kick Off Point (KOP)

UL K	Section 30	Township 24N	Range 6W	Lot	Feet from N/S Line 2620' SOUTH	Feet from E/W Line 2651' WEST	Latitude 36.282647 °N	Longitude -107.510108 °W	County RIO ARRIBA
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First Take Point (FTP)

UL G	Section 30	Township 24N	Range 6W	Lot	Feet from N/S Line 1928' NORTH	Feet from E/W Line 2455' EAST	Latitude 36.284954 °N	Longitude -107.509388 °W	County RIO ARRIBA
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Last Take Point (LTP)

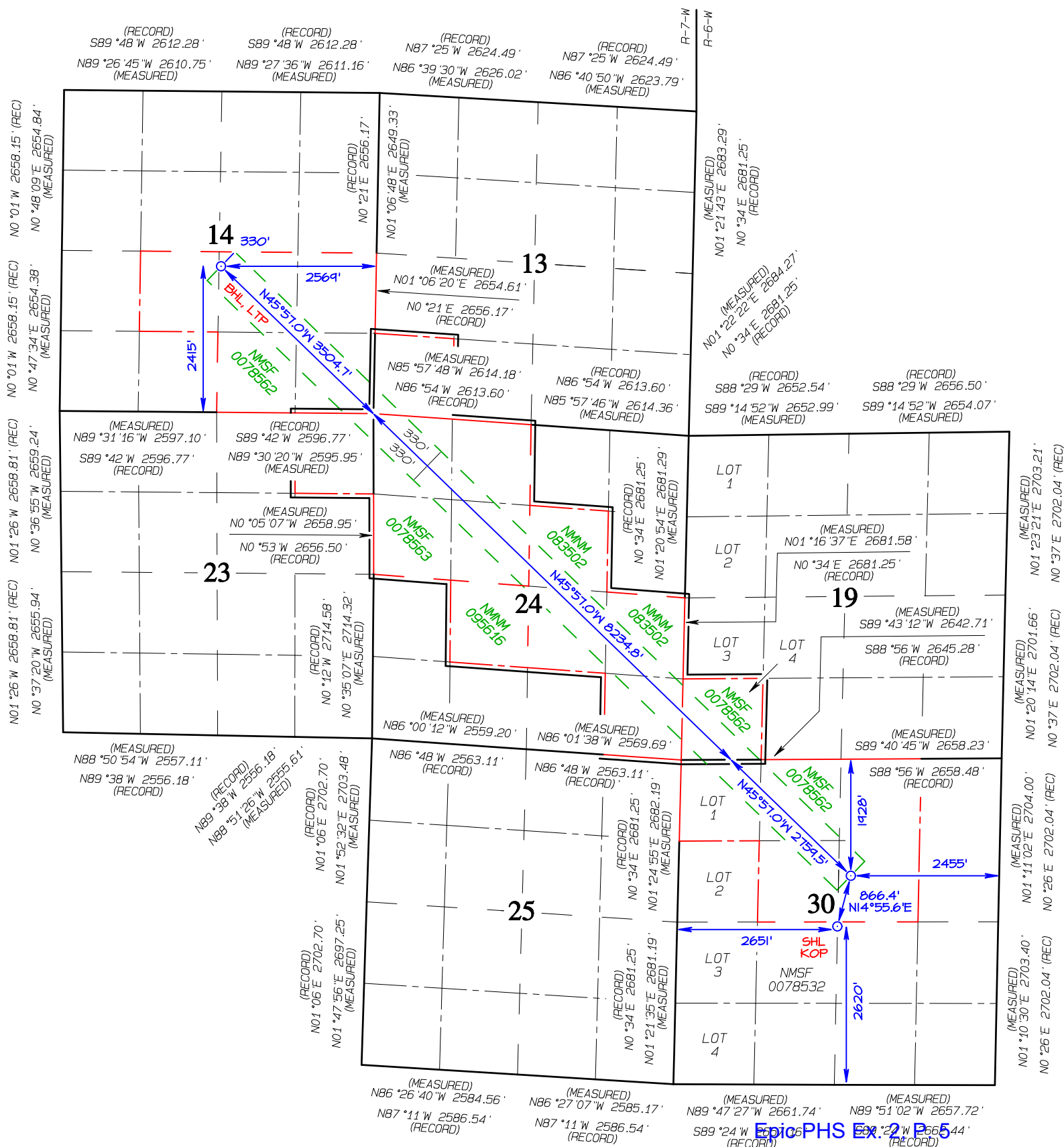
UL J	Section 14	Township 24N	Range 7W	Lot	Feet from N/S Line 2415' SOUTH	Feet from E/W Line 2569' EAST	Latitude 36.312263 °N	Longitude -107.545196 °W	County RIO ARRIBA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation
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OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. <u>Shaw-Marie Ford</u> 8/5/2026 Signature Date Shaw-Marie Ford Printed Name sford@enduringresources.com E-mail Address	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  JASON C. EDWARDS Signature and Seal of Professional Surveyor Certificate Number 15269 Date of Survey SEPTEMBER 16, 2025
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SURFACE LOCATION (SHL)
2620' FSL 2651' FWL
SECTION 30, T24N, R6W

LAT 36.282647°N
LONG -107.510108°W
DATUM: NAD1983



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Enduring Resources, LLC **OGRID:** 372286 **Date:** 4/10/2026

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bobby B Unit 040H		K-30-24N-6W	2584 FSL x 2633 FWL	816	1651	327
Bobby B Unit 041H		K-30-24N-6W	2602 FSL x 2642 FWL	765	1548	306
Bobby B Unit 042H		K-30-24N-6W	2495 FSL x 2589 FWL	417	843	167
Bobby B Unit 043H		K-30-24N-6W	2513FSL x 2598 FWL	485	981	194
Bobby B Unit 044H		K-30-24N-6W	2531FSL x 2610 FWL	544	1101	218
Bobby B Unit 045H		K-30-24N-6W	2549 FSL x 2616 FWL	485	981	194
Bobby B Unit 046H		K-30-24N-6W	2567 FSL x 2624 FWL	434	877	173
Bobby B Unit 047H		K-30-24N-6W	2620 FSL x 2651 FWL	727	1471	291
3-year Decline Curve						
Bobby B Unit 040H		K-30-24N-6W	2584 FSL x 2633 FWL	233	1046	93
Bobby B Unit 041H		K-30-24N-6W	2602 FSL x 2642 FWL	218	981	87
Bobby B Unit 042H		K-30-24N-6W	2495 FSL x 2589 FWL	94	424	38
Bobby B Unit 043H		K-30-24N-6W	2513FSL x 2598 FWL	110	493	44
Bobby B Unit 044H		K-30-24N-6W	2531FSL x 2610 FWL	123	553	49
Bobby B Unit 045H		K-30-24N-6W	2549 FSL x 2616 FWL	110	493	44
Bobby B Unit 046H		K-30-24N-6W	2567 FSL x 2624 FWL	98	441	39
Bobby B Unit 047H		K-30-24N-6W	2620 FSL x 2651 FWL	207	932	83

IV. Central Delivery Point Name: Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Shaw-Marie Valadez
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 6/1/2026
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN

Bobby B 040H, 041H, 042H, 043H, 044H, 045H, 046H, 047H

SEPARATION EQUIPMENT

Enduring Resources, LLC (Enduring) has pulled representative pressurized samples from wells in the same producing formation. Enduring has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

- Individual 3 phase separator will be set for the individual well.
- The separator will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
- The 3 phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- Individual heater treaters will be set for the individual well.
- The heater treaters are sized based on the anticipated combined volume of oil and produced water predicted to come from the initial 3 phase separator.
- Oil will be separated from the produced water and the oil/produced water will be sent to its respective tanks.
- The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks.
- The Vapor Recovery Unit has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. The Vapor Recovery Unit is utilized to push the recovered gas into the sales pipeline.

Production storage tanks will be set as follows:

- The oil and produced water tanks utilize a closed vent capture system to ensure all breathing, working, and flashing losses are routed to the Vapor Recovery Tower and Vapor Recovery Unit.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.



Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN

Bobby B 040H, 041H, 042H, 043H, 044H, 045H, 046H, 047H

VENTING and FLARING

Enduring has a natural gas system available prior to startup of completion operations. Enduring utilizes a Vapor Recovery Unit System and sells all natural gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the vapor recovery tower, vapor recovery unit, storage tanks, and pipelines.

Currently, Enduring utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) Enduring utilizes natural gas-powered generators to power its leases where grid power isn't available.
- b) When electrical grid power is unavailable, natural gas generators will be used for major equipment onsite.
- c) Enduring's in service compression will be natural gas powered.
- d) Should liquids removal, such as dehydration be required, units will be powered by natural gas.

Enduring will only flare gas during the following times:

- Scheduled maintenance for gas capturing equipment including:
 - Vapor Recovery Tower
 - Vapor Recovery Unit
 - Storage tanks
 - Pipelines
 - Emergency flaring



Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN

Bobby B 040H, 041H, 042H, 043H, 044H, 045H, 046H, 047H

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

Enduring understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

19.15.27.8 B. Venting and flaring during drilling operations

- Enduring shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volumes will be set on location of the facility at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- In the event of an emergency, Enduring will vent natural gas in order to avoid substantial impact. Enduring shall report the vented or flared gas to the NMOCD.

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, Enduring utilizes the following:

- Enduring facilities are built and ready from day 1 of Flowback.
- Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See Separation Equipment for details.
- Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or temporary flare to manage natural gas. This flare would meet the following requirements:
 - 1) An appropriately sized flare stack with an automatic igniter.
 - 2) Enduring analyzes the natural gas samples twice per week.
 - 3) Enduring routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met.
 - 4) Enduring provides the NMOCD with pipeline specifications and natural gas data.



Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN

Bobby B 040H, 041H, 042H, 043H, 044H, 045H, 046H, 047H

19.15.27.8 D. Venting and flaring during production operations

During Production Operations Enduring will not vent or flare natural gas except under the following circumstances:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
 - a. Enduring does not vent after the well achieves a stabilized rate and pressure.
 - b. Enduring will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
 - c. Enduring will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
 - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:
 - a. Enduring receives approval from the NMOCD.
 - b. Enduring remains in compliance with the NM gas capture requirements.
 - c. Enduring submits an updated C-129 form to the NMOCD.
4. During the following activities unless prohibited:
 - a. Gauging or sampling a storage tank or low-pressure production vessel.
 - b. Loading out liquids from a storage tank.
 - c. Repair and maintenance.
 - d. Normal operation of gas activated pneumatic controller or pump.
 - e. Normal operation of a storage tank but not including venting from a thief hatch.
 - f. Normal operation of dehydration units.
 - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
 - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
 - i. When natural gas does not meet the gathering pipeline specifications.
 - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

19.15.27.8 E. Performance standards

1. Enduring has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. Enduring will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it is designed with an auto ignition system.
3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.



Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN

Bobby B 040H, 041H, 042H, 043H, 044H, 045H, 046H, 047H

- a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
 - b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts ENDURING of flare malfunction within 18 months after May 25, 2021.
 - c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
 - d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.
4. Enduring will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
 5. Enduring will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
 6. Enduring may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
 7. Facilities will be designed to minimize waste.
 8. Enduring will resolve emergencies as promptly as possible.

19.15.27.8 F. Measurement or estimation of vented and flared natural gas

1. Enduring will have meters on both the low- and high-pressure sides of the flares and the volumes will be recorded in ENDURING's SCADA system.
2. Enduring will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
3. Enduring's measuring equipment will conform to the industry standards.
4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing meters.
5. Enduring will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. Enduring will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
7. Enduring will install measuring equipment whenever the NMOCD determines that metering is necessary.



Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN

Bobby B 040H, 041H, 042H, 043H, 044H, 045H, 046H, 047H

BEST MANAGEMENT PRACTICES

Enduring utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

Enduring has a closed vent capture system to route emissions from the heater treater, tanks, and vapor recovery to the vapor recovery unit with an enclosed combustion device (ECD) for backup. The system is designed such that if the vapor recovery unit is taken out of service for any reason, the vapors will be routed to the ECD for combustion.

Enduring will isolate and attempt to route all vapors to the vapor recovery unit or ECD prior to opening any lines for maintenance to minimize venting from the equipment.

Enduring shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than 15 days following the discovery or commencement of venting or flaring.

Enduring shall notify the NMOCD verbally or by e-mail within 24-hours following discovery or commencement of venting or flaring that exceeds 500 MCF in volume or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event and provide the information required in form C-129 to the NMOCD no later than 15 days that verifies, updates, or corrects the verbal or e-mail notification.

Enduring will install measuring equipment to conform to industry standards such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

Enduring's measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

Enduring shall report the volume of vented and flared natural gas for each well or facility at which venting or flaring occurred on a monthly basis.



ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY, SUITE 525
CENTENNIAL, COLORADO 80211

DRILLING PLAN: *Drill, complete, and equip single lateral in the Mancos-Gallup formation*

WELL INFORMATION:

Name: Bobby B 047H

API Number: Not yet assigned

AFE Number: DV03392

ER Well Number: NM10133.01

State: New Mexico

County: Rio Arriba

Surface Elevation: 6,665 ft ASL (GL) 6,689 ft ASL (KB)

Surface Location: 30-24-6 Sec-Twn-Rng 2,620 ft FSL 2,651 ft FWL

36.282647 ° N latitude 107.510108 ° W longitude (NAD 83)

BH Location: 14-24-7 Sec-Twn-Rng 2,415 ft FSL 2,569 ft FEL

36.312263 ° N latitude 107.545196 ° W longitude (NAD 83)

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 49.1 miles to MM 102.9, Left (NorthEast) on County Road 378 for 1.1 miles to Y; Left (NorthWest) staying on Cty Rd 378 for 0.4 miles to T; Right/Straight (North) on Cty Rd 378 for 3.1 miles to new access road on left; Left (West) for 0.1 miles to Bobby B40H Pad, There are 8 wells on this location from North (closest to location access) to South (Bobby B Unit 047H, BBU 041H, BBU 040H, BBU 046H, BBU 045H, BBU 044H, BBU 043H and BBU 042H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	5,310	1,379	1,392	W	normal
	Kirtland	5,170	1,519	1,535	W	normal
	Fruitland	4,965	1,724	1,744	G, W	sub
	Pictured Cliffs	4,705	1,984	2,009	G, W	sub
	Lewis	4,585	2,104	2,132	G, W	normal
	Chacra	4,265	2,424	2,458	G, W	normal
	Cliff House	3,160	3,529	3,586	G, W	sub
	Menefee	3,140	3,549	3,606	G, W	normal
	Point Lookout	2,425	4,264	4,336	G, W	normal
	Mancos	2,140	4,549	4,626	O,G	sub (~0.38)
	Gallup (MNCS_A)	1,785	4,904	4,981	O,G	sub (~0.38)
	MNCS_B	1,700	4,989	5,066	O,G	sub (~0.38)
	MNCS_C	1,535	5,154	5,235	O,G	sub (~0.38)
	MNCS_Cms	1,454	5,235	5,322	O,G	sub (~0.38)
	MNCS_D	1,429	5,260	5,351	O,G	sub (~0.38)
	MNCS_E	1,349	5,340	5,449	O,G	sub (~0.38)
	MNCS_F	1,314	5,375	5,497	O,G	sub (~0.38)
	MNCS_G	1,228	5,461	5,637	O,G	sub (~0.38)
	MNCS_H	1,187	5,502	5,728	O,G	sub (~0.38)
	FTP TARGET	1,228	5,461	5,637	O,G	sub (~0.38)
	BHL TARGET	1,030	5,659	20,288	O,G	sub (~0.38)

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations
 Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft
Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,440 psi
Maximum anticipated surface pressure, assuming partially evacuated hole: 1,200 psi

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

H₂S Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 7" casing to TD; gas detection from drillout of 9-5/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 9-5/8" casing to TD

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 7" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 153

Draw Works: Pacific Rim 1500AC (1,500 hp)

Mast: Process MFG Corp Swing Up Triple (136 ft, 750,000 lbs)

Top Drive: Tesco 400-EXI-800 (400 ton)

Prime Movers: 3 - CAT 3512C (1,350 hp)

Pumps: 2 - Gardner Denver PZ-11 (7,500 psi)

BOPE 1: T3 Annular & Shaffer double gate ram (11", 5,000 psi)

BOPE 2: T3 annular(11", 5,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 23.5

Note: Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.

- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be installed on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:**Fluid Measurement:**

Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimize the amount of fluids and solids that require disposal.

Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section and attached Newpark mud program for additional details.

DETAILED DRILLING PLAN:

SURFACE: *Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.*

0 ft (MD)	to	350 ft (MD)	Hole Section Length:	350 ft
0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	BTC	2,020	3,520	564,000
Loading					153	1,175	110,988
Min. S.F.					13.21	3.00	5.08

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minimum: NA Optimum: NA Maximum: NA

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Redi-Mix	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114	184

Calculated cement volumes assume gauge hole and the excess noted in table Csg ID 8.921

Mesa Ready Mix or first available

Shoe Track L 44

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

INTERMEDIATE: Drill as per directional plan to casing setting depth, run casing, cement casing to surface.

350 ft (MD)	to	6,058 ft (MD)	Hole Section Length:	5,708 ft
350 ft (TVD)	to	5,499 ft (TVD)	Casing Required:	6,058 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCI)	8.8 - 9.2	15	8 - 14	6 - 12	10.8 - 11.2	No OBM

Hole Size: 8.75

Bit / Motor: 8-3/4" PDC bit w/mud motor

MWD / Survey: MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1,500 psi for 30 minutes.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	J-55	BTC	4,320	4,980	415,000	490,000
Loading					2,402	1,515	237,355	237,355
Min. S.F.					1.80	3.29	1.75	2.06

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minimum: NA Optimum: NA Maximum: NA

Centralizers: 1 per joint in non-vertical hole; 1 per 3-joints in vertical hole

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Spacer	Mud Flush III	8.4				40 bbls		0
Lead	NeoCem TM	11.8	2.454	14.427	100%	0	535	1,314
Tail	SBM NeoCem B	13.5	1.440	6.84	30%	4,526	214	309

Annular Capacity	0.16681	cuft/ft	7" casing x 9-5/8" casing annulus	Shoe Track L	44
	0.1503	cuft/ft	7" casing x 8-3/4" hole annulus	Casing ID	6.276
	0.2148	cuft/ft	7" casing casing volume	Est displacement bbls	230.1

Calculated cement volumes assume gauge hole and the excess noted in table

10 bbls water
Spacer f/b

40 bbls water
Mud Flush III f/b

Lead NeoCem TM
Bridgemaker II 2.0 lbs/sx LCM
FWC Free water control 0.15%
TA Thixotropic additive 0.6%
FLC Fluid Loss Control 0.5%
Accelerator 3.0%
BWOC BWOC BWOC BWOC

	SBM NeoCem E+	FWC Free water	FLC Fluid Loss		
	TM Tail Base	Bridgmaker II	control 0.1%	Control 0.5%	HR-5 Retarder
Tail	System	0.2 lbs/sx LCM	BWOC	BWOC	0.5% BWOC
				0.1% BWOC	

Halliburton Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: Drill to TD following directional plan, run casing, cement casing to surface.

6,058	ft (MD)	to	20,288	ft (MD)	Hole Section Length:	14,230	ft
5,499	ft (TVD)	to	5,659	ft (TVD)	Casing Required:	14,380	ft
Estimated KOP:			5,200	ft (MD)	4,947	ft (TVD)	
Estimated Liner Top:			5,908	ft (MD)	5,467	ft (TVD)	
Estimated Landing Point (FTP):			5,637	ft (MD)	5,461	ft (TVD)	
Estimated Lateral Length:			14,651	ft (MD)			

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments	Comments
	WBM	8.7 - 9.0	NC	1	1	8.5-9.2	prod water	

Hole Size: 6.125

Bit / Motor: 6-1/8" PDC bit w/mud motor

MWD / Survey: MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100' minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to **1,500** psi for 30 minutes.

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,796	8,824	303,078	303,078
Min. S.F.					2.70	1.21	1.21	1.27

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient.

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull. Tension calculations assume vertical hole to approximate drag in lateral.

MU Torque (ft lbs): Minimum: BTC Optimum: BTC Maximum: BTC

Centralizers: Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys.

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu)
Spacer	Tuned Prime Spacer	12.2		31.6		0	60	
Tail	NeoCem E+	13.5	1.609	7.70	35%	5,908	1,166	1,876
Displacement	301	est bbls						

Annular Capacities	0.1044	cuft/ft	4-1/2" casing x 7" casing annulus	
	0.09417	cuft/ft	4-1/2" casing x 6-1/8" hole annulus	
	0.0873	cuft/ft	4-1/2" casing volume	est shoe jt ft 100
	0.0134	bbls/ft	4-1/2" DP capacity	

Calculated cement volumes assume gauge hole and the excess noted in table

Halliburton Cementing Liner & Production Blend

Spacer	S-8 Silica Flour	Avis 616	Xcem-311	SS201 Surfactant
	113.2 lbs/bbl	viscosifier 4.0 lb/bbl	Defoamer .8 lb/bbl	0.5 gal/bbl
Lead/Tail	NeoCem E+	FWC Free water control 0.1%	FLC Fluid loss control 0.5%	HR-5 Retarder 0.1% BWOC
		BWOC	BWOC	

Displacement Produced water
plus biocide

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as defined by NMAC 19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. **Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.**

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 14,551
Est Frac Inform: 61 Frac Stages 233,000 bbls slick water 18,920,000 lbs proppant
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

Drilling: 9/9/2026
Completion: 11/8/2026
Production: 12/23/2026

Prepared by: Greg Olson 4/28/2026
Updated:

WELL NAME: Bobby B 047H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation

API Number: Not yet assigned

AFE Number: DV03392

ER Well Number: NM10133.01

State: New Mexico

County: Rio Arriba

Surface Elev.: 6,665 ft ASL (GL) 6,689 ft ASL (KB)

Surface Location: 30-24-6 Sec-Twn- Rng 2,620 ft FSL 2,651 ft FWL

BH Location: 14-24-7 Sec-Twn- Rng 2415 ft FSL 2569 ft FEL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 49.1 miles to MM 102.9, Left (NorthEast) on County Road 378 for 1.1 miles to Y; Left (NorthWest) staying on Cty Rd 378 for 0.4 miles to T; Right/Straight (North) on Cty Rd 378 for 3.1 miles to new access road on left; Left (West) for 0.1 miles to Bobby B40H Pad, There are 8 wells on this location from North (closest to location access) to South (Bobby B Unit 047H, BBU 041H, BBU 040H, BBU 046H, BBU 045H, BBU 044H, BBU 043H and BBU 042H).

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	6,058 ft
KOP (MD)	5,200 ft
KOP (TVD)	4,947 ft
Target (TVD)	5,461 ft
Curve BUR	10 °/100 ft
POE (MD)	5,637 ft
TD (MD)	20,288 ft
Lat Len (ft)	14,651 ft

WELL CONSTRUCTION SUMMARY:

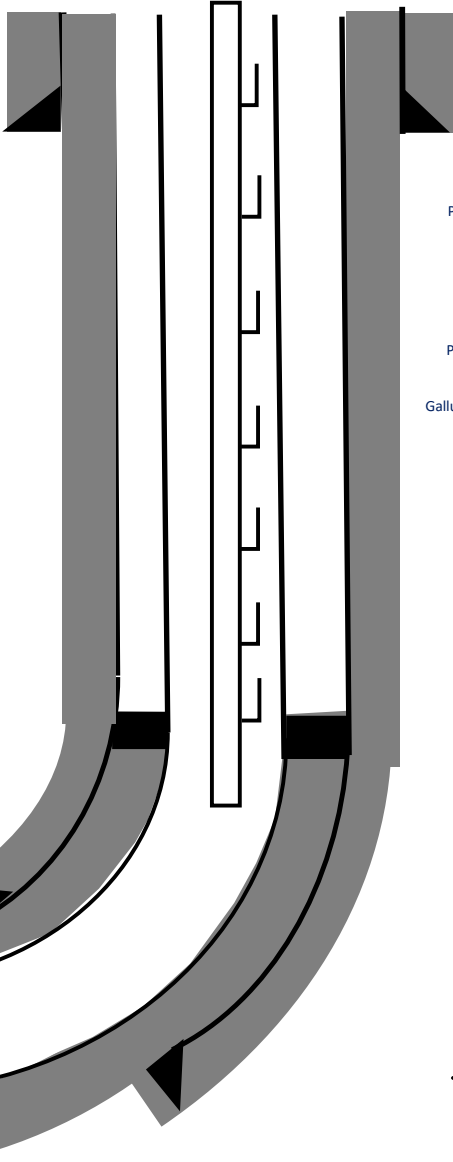
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	350	9.625	36	J-55	BTC	0	350
Intermediate	8.750	6,058	7	26.0	J-55	BTC	0	6,058
Production	6.125	20,288	4.500	11.6	P-110	BTC	5,908	20,288

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Ann Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	NeoCem TM SBM	11.8	2.4542	14.427	0.2148	100%	0	535
Inter. (Tail)	NeoCem E	13.5	1.44	6.84	0.2148	30%	4,526	214
Prod. (Tail)	NeoCem E+	13.5	1.609	7.70	0.0873	35%	5,908	1,166

COMPLETION / PRODUCTION SUMMARY:

Frac: 61 Frac Stages, 233000 bbls slick water, 18920000 lbs proppant
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

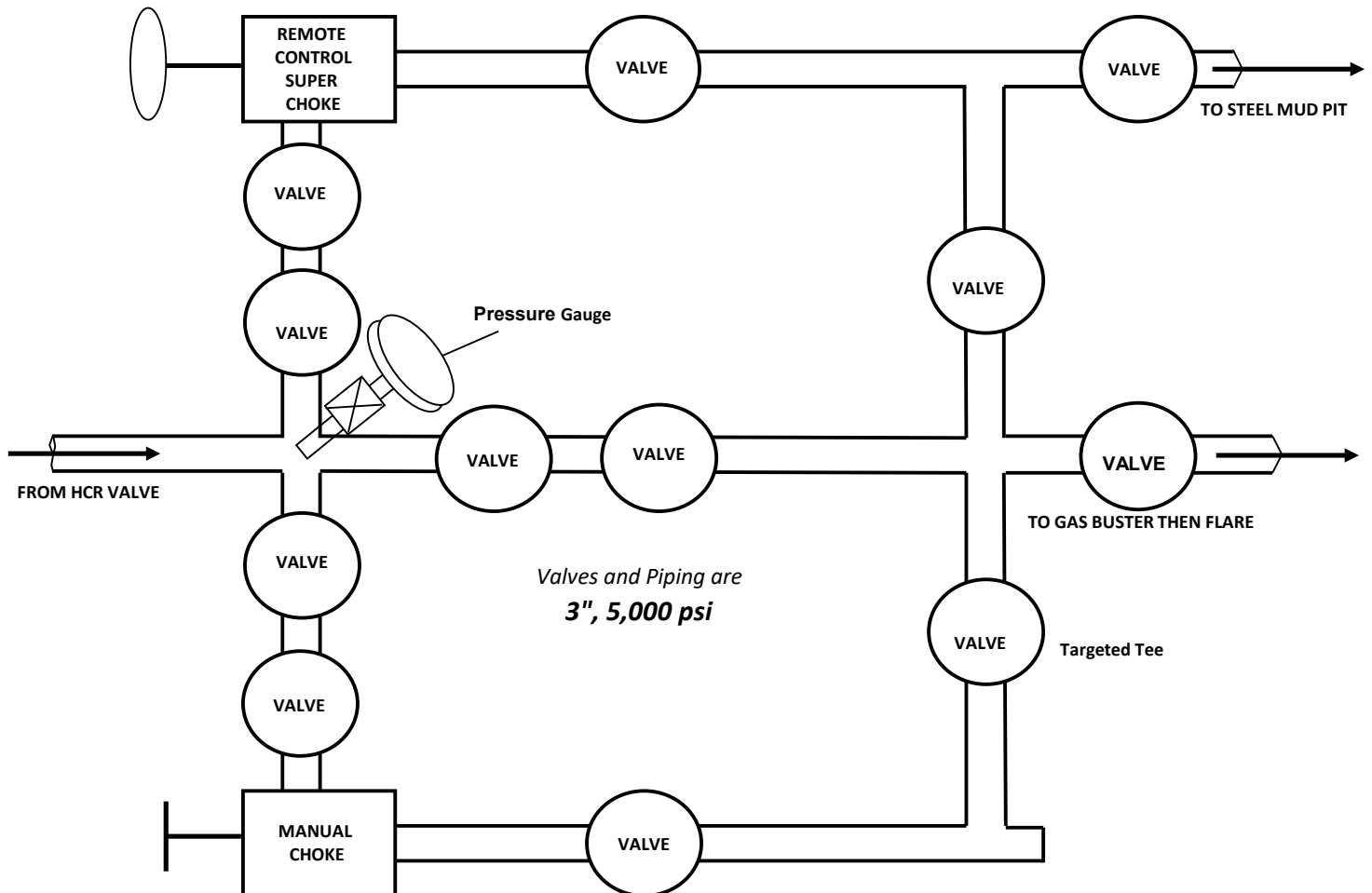


Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	1,379	1,392
Kirtland	1,519	1,535
Fruitland	1,724	1,744
Pictured Cliffs	1,984	2,009
Lewis	2,104	2,132
Chacra	2,424	2,458
Cliff House	3,529	3,586
Menefee	3,549	3,606
Point Lookout	4,264	4,336
Mancos	4,549	4,626
Gallup (MNCS_A)	4,904	4,981
MNCS_B	4,989	5,066
MNCS_C	5,154	5,235
MNCS_Cms	5,235	5,322
MNCS_D	5,260	5,351
MNCS_E	5,340	5,449
MNCS_F	5,375	5,497
MNCS_G	5,461	5,637
MNCS_H	5,502	5,728
MNCS_I	NA	NA
FTP TARGET	5,461	5,637
BHL TARGET	5,659	20,288

CHOKE MANIFOLD DIAGRAM

NOTE: EXACT BOPE AND CHOKE CONFIGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

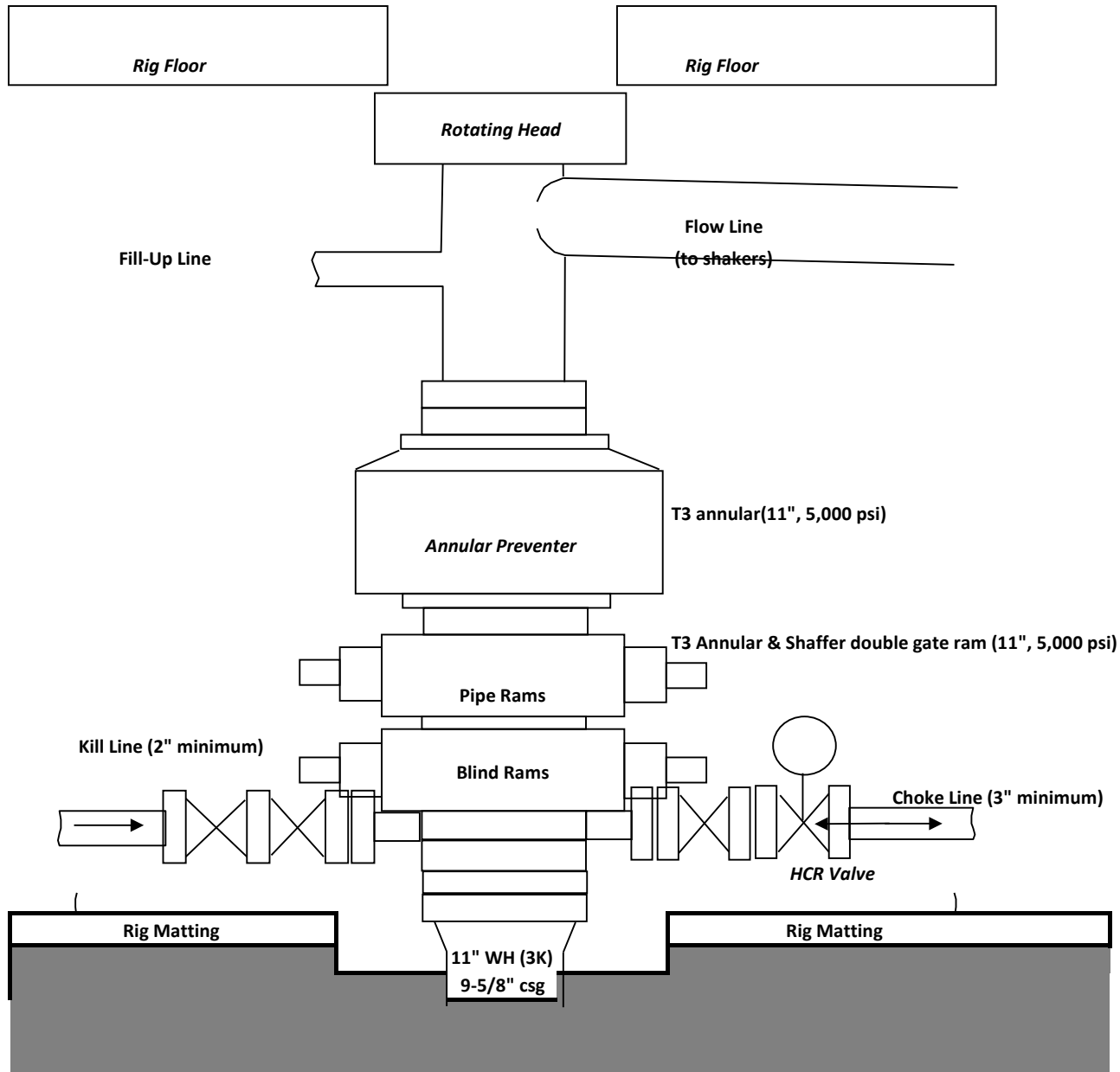
CHOKE MANIFOLD



BOPE DIAGRAM

NOTE: EXACT BOPE AND CHOKE CONFIGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

BOPE





Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCSWA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,228.84ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/23/2026		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,288.42	rev0 (Orig hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 14 T24N R07W						
Pre Ongard 001 - No surveys - No surveys	18,494.88	5,805.13	685.91	149.70	1.279	Level 3<2.00, CC
Pre Ongard 001 - No surveys - No surveys	18,500.00	5,805.17	685.93	149.53	1.279	Level 3<2.00, ES, SF
Sec 23 T24N R07W						
Byrd 001 - Orig hole - No surveys	16,700.00	5,674.74	1,306.95	817.44	2.670	CC
Byrd 001 - Orig hole - No surveys	16,704.45	5,674.78	1,306.95	817.36	2.669	ES, SF
Sec 24 T24N R07W						
Grace Federal 24 001R - Orig hole - Inc only surveys	15,339.62	5,620.43	79.82	-304.41	0.208	Level 3<2.00, CC, ES, SF
Grace Federal 24 002 - Orig hole - Inc only surveys	14,098.03	5,542.70	171.45	-156.58	0.523	Level 3<2.00, CC, ES, SF
Lybrook Fed 005 - Orig hole - Inc only surveys	11,013.98	5,569.87	175.24	-104.70	0.626	Level 3<2.00, CC, ES, SF
Pre ongard 001 (Grace Federal 24) - Orig hole - Inc only	14,859.29	5,582.86	364.42	-10.36	0.972	Level 3<2.00, CC, ES, SF
Pre ongard 001 (Reynolds Killarney 24) - Orig hole - No s	11,991.61	5,556.01	400.46	24.53	1.065	Level 3<2.00, CC, ES, SF
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,663.45	5,605.40	1,044.87	651.37	2.655	CC, ES
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,700.00	5,605.69	1,045.51	651.53	2.654	SF
Sec 30 T24N R06W						
Bobby B 040H - Orig hole - rev0	500.00	500.00	40.15	36.73	11.752	CC, ES
Bobby B 040H - Orig hole - rev0	600.00	599.95	42.66	38.53	10.325	SF
Bobby B 041H - Orig hole - rev0	500.00	500.00	19.91	16.50	5.828	CC, ES
Bobby B 041H - Orig hole - rev0	20,288.42	20,192.02	1,185.12	494.56	1.716	Level 3<2.00, SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	139.84	136.42	40.933	CC, ES
Bobby B 042H - Orig hole - rev0	700.00	685.57	158.91	154.13	33.247	SF
Bobby B 043H - Orig hole - rev0	500.00	500.00	119.92	116.51	35.104	CC, ES
Bobby B 043H - Orig hole - rev0	800.00	792.46	144.81	139.26	26.115	SF
Bobby B 044H - Orig hole - rev0	500.00	500.00	100.01	96.60	29.276	CC, ES
Bobby B 044H - Orig hole - rev0	800.00	798.77	122.76	117.19	22.022	SF
Bobby B 045H - Orig hole - rev0	5,453.36	5,465.56	70.10	30.70	1.779	Level 3<2.00, CC, ES, SF
Bobby B 046H - Orig hole - rev0	1,919.68	1,952.14	41.38	25.36	2.582	CC, ES, SF
Rincon 001 - Orig hole - Inc only surveys	6,858.80	5,594.96	136.69	-34.10	0.800	Level 3<2.00, CC, ES, SF
Rincon 002 - Orig hole - Inc only surveys	4,899.02	4,801.56	599.65	480.24	5.022	CC
Rincon 002 - Orig hole - Inc only surveys	5,100.00	5,002.58	601.17	477.33	4.854	ES
Rincon 002 - Orig hole - Inc only surveys	5,300.00	5,195.67	615.58	487.29	4.798	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

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Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14 T24N R07W - Pre Ongard 001 - No surveys - No surveys											Offset Site Error:	0.00 ft
Survey Program: 100-UNKNOWN											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
16,400.00	5,627.84	5,788.34	5,788.34	255.62	231.58	88.598	10,164.16	-8,431.80	2,204.24	1,905.87	298.37	7.388
16,500.00	5,628.64	5,789.14	5,789.14	257.94	231.61	88.665	10,164.16	-8,431.80	2,109.44	1,807.80	301.64	6.993
16,600.00	5,629.44	5,789.94	5,789.94	260.25	231.64	88.732	10,164.16	-8,431.80	2,015.14	1,709.91	305.23	6.602
16,700.00	5,630.24	5,790.74	5,790.74	262.56	231.67	88.799	10,164.16	-8,431.80	1,921.41	1,612.22	309.19	6.214
16,800.00	5,631.05	5,791.55	5,791.55	264.88	231.71	88.866	10,164.16	-8,431.80	1,828.35	1,514.77	313.59	5.830
16,900.00	5,631.85	5,792.35	5,792.35	267.19	231.74	88.933	10,164.16	-8,431.80	1,736.07	1,417.59	318.47	5.451
17,000.00	5,632.65	5,793.15	5,793.15	269.50	231.77	88.999	10,164.16	-8,431.80	1,644.68	1,320.74	323.94	5.077
17,100.00	5,633.45	5,793.95	5,793.95	271.81	231.80	89.066	10,164.16	-8,431.80	1,554.35	1,224.29	330.07	4.709
17,200.00	5,634.25	5,794.75	5,794.75	274.13	231.84	89.133	10,164.16	-8,431.80	1,465.28	1,128.30	336.98	4.348
17,300.00	5,635.05	5,795.55	5,795.55	276.44	231.87	89.200	10,164.16	-8,431.80	1,377.71	1,032.91	344.81	3.996
17,400.00	5,635.85	5,796.35	5,796.35	278.76	231.90	89.267	10,164.16	-8,431.80	1,291.95	938.23	353.72	3.652
17,500.00	5,636.66	5,797.16	5,797.16	281.07	231.93	89.334	10,164.16	-8,431.80	1,208.38	844.46	363.92	3.320
17,600.00	5,637.46	5,797.96	5,797.96	283.38	231.96	89.401	10,164.16	-8,431.80	1,127.48	751.87	375.61	3.002
17,700.00	5,638.26	5,798.76	5,798.76	285.70	232.00	89.468	10,164.16	-8,431.80	1,049.88	660.81	389.07	2.698
17,800.00	5,639.06	5,799.56	5,799.56	288.01	232.03	89.535	10,164.16	-8,431.80	976.36	571.81	404.55	2.413
17,900.00	5,639.86	5,800.36	5,800.36	290.33	232.06	89.602	10,164.16	-8,431.80	907.92	485.63	422.29	2.150
18,000.00	5,640.66	5,801.16	5,801.16	292.64	232.09	89.669	10,164.16	-8,431.80	845.79	403.41	442.38	1.912 Level 3<2.00
18,100.00	5,641.46	5,801.96	5,801.96	294.96	232.12	89.736	10,164.16	-8,431.80	791.45	326.90	464.54	1.704 Level 3<2.00
18,200.00	5,642.26	5,802.76	5,802.76	297.27	232.16	89.803	10,164.16	-8,431.80	746.60	258.79	487.81	1.531 Level 3<2.00
18,300.00	5,643.07	5,803.57	5,803.57	299.58	232.19	89.870	10,164.16	-8,431.80	713.05	203.02	510.03	1.398 Level 3<2.00
18,400.00	5,643.87	5,804.37	5,804.37	301.90	232.22	89.936	10,164.16	-8,431.80	692.44	164.83	527.61	1.312 Level 3<2.00
18,494.88	5,644.63	5,805.13	5,805.13	304.10	232.25	90.000	10,164.16	-8,431.80	685.91	149.70	536.21	1.279 Level 3<2.00, CC
18,500.00	5,644.67	5,805.17	5,805.17	304.21	232.25	90.003	10,164.16	-8,431.80	685.93	149.53	536.40	1.279 Level 3<2.00, ES, SF
18,600.00	5,645.47	5,805.97	5,805.97	306.53	232.28	90.070	10,164.16	-8,431.80	693.92	159.79	534.13	1.299 Level 3<2.00
18,700.00	5,646.27	5,806.77	5,806.77	308.84	232.32	90.137	10,164.16	-8,431.80	715.92	193.77	522.15	1.371 Level 3<2.00
18,800.00	5,647.07	5,807.57	5,807.57	311.16	232.35	90.204	10,164.16	-8,431.80	750.71	246.44	504.27	1.489 Level 3<2.00
18,900.00	5,647.87	5,808.37	5,808.37	313.47	232.38	90.271	10,164.16	-8,431.80	796.61	312.41	484.20	1.645 Level 3<2.00
19,000.00	5,648.68	5,809.18	5,809.18	315.79	232.41	90.338	10,164.16	-8,431.80	851.83	387.44	464.38	1.834 Level 3<2.00
19,100.00	5,649.48	5,809.98	5,809.98	318.10	232.44	90.405	10,164.16	-8,431.80	914.67	468.64	446.04	2.051
19,200.00	5,650.28	5,810.78	5,810.78	320.42	232.48	90.472	10,164.16	-8,431.80	983.69	554.08	429.61	2.290
19,300.00	5,651.08	5,811.58	5,811.58	322.74	232.51	90.539	10,164.16	-8,431.80	1,057.67	642.54	415.13	2.548
19,400.00	5,651.88	5,812.38	5,812.38	325.05	232.54	90.606	10,164.16	-8,431.80	1,135.64	733.18	402.46	2.822
19,500.00	5,652.68	5,813.18	5,813.18	327.37	232.57	90.673	10,164.16	-8,431.80	1,216.84	825.45	391.39	3.109
19,600.00	5,653.48	5,813.98	5,813.98	329.68	232.60	90.740	10,164.16	-8,431.80	1,300.66	918.95	381.71	3.407
19,700.00	5,654.28	5,814.78	5,814.78	332.00	232.64	90.807	10,164.16	-8,431.80	1,386.62	1,013.40	373.22	3.715
19,800.00	5,655.09	5,815.59	5,815.59	334.31	232.67	90.874	10,164.16	-8,431.80	1,474.36	1,108.62	365.74	4.031
19,900.00	5,655.89	5,816.39	5,816.39	336.63	232.70	90.940	10,164.16	-8,431.80	1,563.56	1,204.44	359.13	4.354
20,000.00	5,656.69	5,817.19	5,817.19	338.95	232.73	91.007	10,164.16	-8,431.80	1,654.01	1,300.75	353.26	4.682
20,100.00	5,657.49	5,817.99	5,817.99	341.26	232.76	91.074	10,164.16	-8,431.80	1,745.49	1,397.47	348.02	5.015
20,200.00	5,658.29	5,818.79	5,818.79	343.58	232.80	91.141	10,164.16	-8,431.80	1,837.87	1,494.53	343.33	5.353
20,288.42	5,659.00	5,819.50	5,819.50	345.63	232.83	91.200	10,164.16	-8,431.80	1,920.18	1,580.59	339.59	5.654

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 23 T24N R07W - Byrd 001 - Orig hole - No surveys												Offset Site Error:	0.00 ft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
14,900.00	5,615.82	5,660.32	5,660.32	220.96	226.46	-89.367	7,484.69	-8,528.22	2,225.29	1,869.42	355.87	6.253	
15,000.00	5,616.62	5,661.12	5,661.12	223.27	226.49	-89.402	7,484.69	-8,528.22	2,145.16	1,783.40	361.76	5.930	
15,100.00	5,617.42	5,661.92	5,661.92	225.58	226.52	-89.438	7,484.69	-8,528.22	2,066.77	1,698.72	368.05	5.616	
15,200.00	5,618.22	5,662.72	5,662.72	227.89	226.55	-89.473	7,484.69	-8,528.22	1,990.31	1,615.57	374.74	5.311	
15,300.00	5,619.03	5,663.53	5,663.53	230.20	226.59	-89.508	7,484.69	-8,528.22	1,916.02	1,534.16	381.86	5.018	
15,400.00	5,619.83	5,664.33	5,664.33	232.51	226.62	-89.543	7,484.69	-8,528.22	1,844.16	1,454.75	389.41	4.736	
15,500.00	5,620.63	5,665.13	5,665.13	234.82	226.65	-89.578	7,484.69	-8,528.22	1,775.02	1,377.63	397.39	4.467	
15,600.00	5,621.43	5,665.93	5,665.93	237.13	226.68	-89.613	7,484.69	-8,528.22	1,708.95	1,303.15	405.79	4.211	
15,700.00	5,622.23	5,666.73	5,666.73	239.44	226.71	-89.648	7,484.69	-8,528.22	1,646.29	1,231.72	414.58	3.971	
15,800.00	5,623.03	5,667.53	5,667.53	241.75	226.75	-89.683	7,484.69	-8,528.22	1,587.47	1,163.80	423.67	3.747	
15,900.00	5,623.83	5,668.33	5,668.33	244.06	226.78	-89.719	7,484.69	-8,528.22	1,532.93	1,099.93	432.99	3.540	
16,000.00	5,624.64	5,669.14	5,669.14	246.38	226.81	-89.754	7,484.69	-8,528.22	1,483.12	1,040.73	442.39	3.353	
16,100.00	5,625.44	5,669.94	5,669.94	248.69	226.84	-89.789	7,484.69	-8,528.22	1,438.55	986.88	451.67	3.185	
16,200.00	5,626.24	5,670.74	5,670.74	251.00	226.87	-89.824	7,484.69	-8,528.22	1,399.72	939.12	460.60	3.039	
16,300.00	5,627.04	5,671.54	5,671.54	253.31	226.91	-89.859	7,484.69	-8,528.22	1,367.11	898.22	468.89	2.916	
16,400.00	5,627.84	5,672.34	5,672.34	255.62	226.94	-89.894	7,484.69	-8,528.22	1,341.19	864.95	476.23	2.816	
16,500.00	5,628.64	5,673.14	5,673.14	257.94	226.97	-89.929	7,484.69	-8,528.22	1,322.33	840.04	482.29	2.742	
16,600.00	5,629.44	5,673.94	5,673.94	260.25	227.00	-89.964	7,484.69	-8,528.22	1,310.85	824.06	486.79	2.693	
16,700.00	5,630.24	5,674.74	5,674.74	262.56	227.03	-90.000	7,484.69	-8,528.22	1,306.95	817.44	489.51	2.670 CC	
16,704.45	5,630.28	5,674.78	5,674.78	262.67	227.04	-90.001	7,484.69	-8,528.22	1,306.95	817.36	489.59	2.669 ES, SF	
16,800.00	5,631.05	5,675.55	5,675.55	264.88	227.07	-90.035	7,484.69	-8,528.22	1,310.68	820.34	490.34	2.673	
16,900.00	5,631.85	5,676.35	5,676.35	267.19	227.10	-90.070	7,484.69	-8,528.22	1,321.99	832.69	489.30	2.702	
17,000.00	5,632.65	5,677.15	5,677.15	269.50	227.13	-90.105	7,484.69	-8,528.22	1,340.69	854.16	486.52	2.756	
17,100.00	5,633.45	5,677.95	5,677.95	271.81	227.16	-90.140	7,484.69	-8,528.22	1,366.46	884.23	482.23	2.834	
17,200.00	5,634.25	5,678.75	5,678.75	274.13	227.20	-90.175	7,484.69	-8,528.22	1,398.92	922.21	476.71	2.935	
17,300.00	5,635.05	5,679.55	5,679.55	276.44	227.23	-90.210	7,484.69	-8,528.22	1,437.62	967.36	470.26	3.057	
17,400.00	5,635.85	5,680.35	5,680.35	278.76	227.26	-90.246	7,484.69	-8,528.22	1,482.06	1,018.89	463.17	3.200	
17,500.00	5,636.66	5,681.16	5,681.16	281.07	227.29	-90.281	7,484.69	-8,528.22	1,531.76	1,076.05	455.71	3.361	
17,600.00	5,637.46	5,681.96	5,681.96	283.38	227.32	-90.316	7,484.69	-8,528.22	1,586.21	1,138.13	448.08	3.540	
17,700.00	5,638.26	5,682.76	5,682.76	285.70	227.36	-90.351	7,484.69	-8,528.22	1,644.94	1,204.49	440.45	3.735	
17,800.00	5,639.06	5,683.56	5,683.56	288.01	227.39	-90.386	7,484.69	-8,528.22	1,707.51	1,274.55	432.95	3.944	
17,900.00	5,639.86	5,684.00	5,684.00	290.33	227.40	-90.405	7,484.69	-8,528.22	1,773.51	1,347.85	425.66	4.167	
18,000.00	5,640.66	5,684.00	5,684.00	292.64	227.40	-90.405	7,484.69	-8,528.22	1,842.58	1,423.96	418.62	4.402	
18,100.00	5,641.46	5,684.00	5,684.00	294.96	227.40	-90.405	7,484.69	-8,528.22	1,914.38	1,502.49	411.90	4.648	
18,200.00	5,642.26	5,684.00	5,684.00	297.27	227.40	-90.405	7,484.69	-8,528.22	1,988.62	1,583.12	405.51	4.904	
18,300.00	5,643.07	5,684.00	5,684.00	299.58	227.40	-90.405	7,484.69	-8,528.22	2,065.04	1,665.58	399.45	5.170	
18,400.00	5,643.87	5,684.00	5,684.00	301.90	227.40	-90.405	7,484.69	-8,528.22	2,143.40	1,749.66	393.74	5.444	
18,500.00	5,644.67	5,684.00	5,684.00	304.21	227.40	-90.405	7,484.69	-8,528.22	2,223.49	1,835.14	388.35	5.726	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 24 T24N R07W - Grace Federal 24 001R - Orig hole - Inc only surveys													Offset Site Error:	0.00 ft
Survey Program: 298-INC-ONLY													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,200.00	5,602.20	5,603.28	5,600.70	181.73	154.46	-77.877	7,420.07	-6,696.49	2,141.04	1,959.47	181.57	11.792		
13,300.00	5,603.00	5,604.08	5,601.50	184.03	154.48	-78.428	7,420.07	-6,696.49	2,041.12	1,859.38	181.73	11.231		
13,400.00	5,603.80	5,604.88	5,602.30	186.34	154.51	-78.981	7,420.07	-6,696.49	1,941.20	1,759.30	181.90	10.672		
13,500.00	5,604.60	5,605.68	5,603.10	188.65	154.53	-79.537	7,420.07	-6,696.49	1,841.29	1,659.22	182.07	10.113		
13,600.00	5,605.40	5,606.49	5,603.90	190.95	154.55	-80.094	7,420.07	-6,696.49	1,741.40	1,559.14	182.26	9.555		
13,700.00	5,606.20	5,607.29	5,604.70	193.26	154.57	-80.653	7,420.07	-6,696.49	1,641.51	1,459.05	182.46	8.997		
13,800.00	5,607.01	5,608.09	5,605.51	195.56	154.59	-81.214	7,420.07	-6,696.49	1,541.64	1,358.96	182.68	8.439		
13,900.00	5,607.81	5,608.89	5,606.31	197.87	154.62	-81.776	7,420.07	-6,696.49	1,441.79	1,258.88	182.91	7.883		
14,000.00	5,608.61	5,609.69	5,607.11	200.18	154.64	-82.341	7,420.07	-6,696.49	1,341.96	1,158.80	183.16	7.327		
14,100.00	5,609.41	5,610.49	5,607.91	202.49	154.66	-82.906	7,420.07	-6,696.49	1,242.15	1,058.71	183.44	6.772		
14,200.00	5,610.21	5,611.29	5,608.71	204.79	154.68	-83.473	7,420.07	-6,696.49	1,142.38	958.63	183.75	6.217		
14,300.00	5,611.01	5,612.09	5,609.51	207.10	154.71	-84.042	7,420.07	-6,696.49	1,042.65	858.54	184.11	5.663		
14,400.00	5,611.81	5,612.90	5,610.31	209.41	154.73	-84.611	7,420.07	-6,696.49	942.98	758.45	184.52	5.110		
14,500.00	5,612.61	5,613.70	5,611.11	211.72	154.75	-85.182	7,420.07	-6,696.49	843.38	658.37	185.01	4.558		
14,600.00	5,613.42	5,614.50	5,611.92	214.03	154.77	-85.754	7,420.07	-6,696.49	743.89	558.28	185.61	4.008		
14,700.00	5,614.22	5,615.30	5,612.72	216.34	154.79	-86.326	7,420.07	-6,696.49	644.56	458.20	186.37	3.459		
14,800.00	5,615.02	5,616.10	5,613.52	218.65	154.82	-86.899	7,420.07	-6,696.49	545.48	358.11	187.37	2.911		
14,900.00	5,615.82	5,616.90	5,614.32	220.96	154.84	-87.473	7,420.07	-6,696.49	446.80	258.02	188.77	2.367		
15,000.00	5,616.62	5,617.70	5,615.12	223.27	154.86	-88.047	7,420.07	-6,696.49	348.87	157.94	190.92	1.827 Level 3<2.00		
15,100.00	5,617.42	5,618.51	5,615.92	225.58	154.88	-88.622	7,420.07	-6,696.49	252.56	57.86	194.70	1.297 Level 3<2.00		
15,200.00	5,618.22	5,619.31	5,616.72	227.89	154.91	-89.197	7,420.07	-6,696.49	160.82	-43.14	203.96	0.789 Level 3<2.00		
15,300.00	5,619.03	5,620.11	5,617.53	230.20	154.93	-89.772	7,420.07	-6,696.49	89.11	-211.09	300.20	0.297 Level 3<2.00		
15,339.62	5,619.34	5,620.43	5,617.84	231.11	154.94	-90.000	7,420.07	-6,696.49	79.82	-304.41	384.23	0.208 Level 3<2.00, CC, ES, SF		
15,400.00	5,619.83	5,620.91	5,618.33	232.51	154.95	-90.347	7,420.07	-6,696.49	100.08	-137.87	237.96	0.421 Level 3<2.00		
15,500.00	5,620.63	5,621.71	5,619.13	234.82	154.97	-90.922	7,420.07	-6,696.49	179.14	-18.09	197.23	0.908 Level 3<2.00		
15,600.00	5,621.43	5,622.51	5,619.93	237.13	154.99	-91.497	7,420.07	-6,696.49	272.33	81.79	190.54	1.429 Level 3<2.00		
15,700.00	5,622.23	5,623.31	5,620.73	239.44	155.02	-92.072	7,420.07	-6,696.49	369.10	181.47	187.63	1.967 Level 3<2.00		
15,800.00	5,623.03	5,624.11	5,621.53	241.75	155.04	-92.646	7,420.07	-6,696.49	467.23	281.18	186.05	2.511		
15,900.00	5,623.83	5,624.92	5,622.33	244.06	155.06	-93.220	7,420.07	-6,696.49	566.02	380.92	185.10	3.058		
16,000.00	5,624.64	5,625.72	5,623.14	246.38	155.08	-93.793	7,420.07	-6,696.49	665.16	480.67	184.49	3.605		
16,100.00	5,625.44	5,626.52	5,623.94	248.69	155.10	-94.365	7,420.07	-6,696.49	764.53	580.43	184.10	4.153		
16,200.00	5,626.24	5,627.32	5,624.74	251.00	155.13	-94.937	7,420.07	-6,696.49	864.05	680.21	183.83	4.700		
16,300.00	5,627.04	5,628.12	5,625.54	253.31	155.15	-95.507	7,420.07	-6,696.49	963.66	780.00	183.66	5.247		
16,400.00	5,627.84	5,628.92	5,626.34	255.62	155.17	-96.076	7,420.07	-6,696.49	1,063.34	879.79	183.56	5.793		
16,500.00	5,628.64	5,629.72	5,627.14	257.94	155.19	-96.644	7,420.07	-6,696.49	1,163.08	979.59	183.49	6.339		
16,600.00	5,629.44	5,630.53	5,627.94	260.25	155.22	-97.211	7,420.07	-6,696.49	1,262.86	1,079.40	183.47	6.883		
16,700.00	5,630.24	5,631.33	5,628.74	262.56	155.24	-97.777	7,420.07	-6,696.49	1,362.67	1,179.21	183.47	7.427		
16,800.00	5,631.05	5,632.13	5,629.55	264.88	155.26	-98.341	7,420.07	-6,696.49	1,462.51	1,279.03	183.49	7.971		
16,900.00	5,631.85	5,632.93	5,630.35	267.19	155.28	-98.903	7,420.07	-6,696.49	1,562.37	1,378.85	183.52	8.513		
17,000.00	5,632.65	5,633.73	5,631.15	269.50	155.30	-99.463	7,420.07	-6,696.49	1,662.24	1,478.68	183.56	9.055		
17,100.00	5,633.45	5,634.53	5,631.95	271.81	155.33	-100.022	7,420.07	-6,696.49	1,762.13	1,578.50	183.63	9.596		
17,200.00	5,634.25	5,635.33	5,632.75	274.13	155.35	-100.579	7,420.07	-6,696.49	1,862.03	1,678.34	183.69	10.137		
17,300.00	5,635.05	5,636.13	5,633.55	276.44	155.37	-101.134	7,420.07	-6,696.49	1,961.94	1,778.17	183.77	10.676		
17,400.00	5,635.85	5,636.94	5,634.35	278.76	155.39	-101.686	7,420.07	-6,696.49	2,061.86	1,878.01	183.85	11.215		
17,500.00	5,636.66	5,637.74	5,635.16	281.07	155.42	-102.237	7,420.07	-6,696.49	2,161.78	1,977.85	183.93	11.753		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 24 T24N R07W - Grace Federal 24 002 - Orig hole - Inc only surveys											Offset Site Error:	0.00 ft
Survey Program: 118-INC-NONLY											Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
11,900.00	5,591.78	5,525.09	5,524.28	151.81	126.55	-84.134	6,490.99	-5,867.86	2,204.64	2,049.39	155.25	14.200
12,000.00	5,592.58	5,525.89	5,525.08	154.11	126.57	-84.399	6,490.99	-5,867.86	2,104.96	1,949.38	155.58	13.530
12,100.00	5,593.38	5,526.69	5,525.88	156.41	126.59	-84.665	6,490.99	-5,867.86	2,005.31	1,849.38	155.93	12.860
12,200.00	5,594.18	5,527.49	5,526.68	158.71	126.60	-84.930	6,490.99	-5,867.86	1,905.70	1,749.38	156.32	12.191
12,300.00	5,594.99	5,528.30	5,527.49	161.01	126.62	-85.196	6,490.99	-5,867.86	1,806.13	1,649.38	156.75	11.522
12,400.00	5,595.79	5,529.10	5,528.29	163.31	126.64	-85.462	6,490.99	-5,867.86	1,706.61	1,549.39	157.22	10.855
12,500.00	5,596.59	5,529.90	5,529.09	165.61	126.66	-85.728	6,490.99	-5,867.86	1,607.15	1,449.41	157.75	10.188
12,600.00	5,597.39	5,530.70	5,529.89	167.91	126.67	-85.995	6,490.99	-5,867.86	1,507.76	1,349.42	158.34	9.522
12,700.00	5,598.19	5,531.50	5,530.69	170.21	126.69	-86.261	6,490.99	-5,867.86	1,408.46	1,249.45	159.01	8.858
12,800.00	5,598.99	5,532.30	5,531.49	172.52	126.71	-86.528	6,490.99	-5,867.86	1,309.27	1,149.49	159.78	8.194
12,900.00	5,599.79	5,533.10	5,532.29	174.82	126.73	-86.795	6,490.99	-5,867.86	1,210.20	1,049.53	160.67	7.532
13,000.00	5,600.59	5,533.91	5,533.09	177.12	126.74	-87.062	6,490.99	-5,867.86	1,111.30	949.58	161.72	6.872
13,100.00	5,601.40	5,534.71	5,533.90	179.43	126.76	-87.329	6,490.99	-5,867.86	1,012.62	849.65	162.97	6.213
13,200.00	5,602.20	5,535.51	5,534.70	181.73	126.78	-87.597	6,490.99	-5,867.86	914.22	749.72	164.50	5.558
13,300.00	5,603.00	5,536.31	5,535.50	184.03	126.80	-87.864	6,490.99	-5,867.86	816.22	649.82	166.40	4.905
13,400.00	5,603.80	5,537.11	5,536.30	186.34	126.81	-88.131	6,490.99	-5,867.86	718.76	549.94	168.82	4.257
13,500.00	5,604.60	5,537.91	5,537.10	188.65	126.83	-88.399	6,490.99	-5,867.86	622.11	450.08	172.02	3.616
13,600.00	5,605.40	5,538.71	5,537.90	190.95	126.85	-88.667	6,490.99	-5,867.86	526.70	350.26	176.44	2.985
13,700.00	5,606.20	5,539.51	5,538.70	193.26	126.87	-88.934	6,490.99	-5,867.86	433.38	250.48	182.89	2.370
13,800.00	5,607.01	5,540.32	5,539.51	195.56	126.88	-89.202	6,490.99	-5,867.86	343.82	150.77	193.05	1.781 Level 3<2.00
13,900.00	5,607.81	5,541.12	5,540.31	197.87	126.90	-89.470	6,490.99	-5,867.86	261.93	51.15	210.78	1.243 Level 3<2.00
14,000.00	5,608.61	5,541.92	5,541.11	200.18	126.92	-89.737	6,490.99	-5,867.86	197.49	-60.21	257.70	0.766 Level 3<2.00
14,098.03	5,609.39	5,542.70	5,541.89	202.44	126.94	-90.000	6,490.99	-5,867.86	171.45	-156.58	328.02	0.523 Level 3<2.00, CC, ES, SF
14,100.00	5,609.41	5,542.72	5,541.91	202.49	126.94	-90.005	6,490.99	-5,867.86	171.46	-156.20	327.66	0.523 Level 3<2.00
14,200.00	5,610.21	5,543.52	5,542.71	204.79	126.95	-90.273	6,490.99	-5,867.86	199.47	-43.73	243.20	0.820 Level 3<2.00
14,300.00	5,611.01	5,544.32	5,543.51	207.10	126.97	-90.541	6,490.99	-5,867.86	264.92	62.72	202.20	1.310 Level 3<2.00
14,400.00	5,611.81	5,545.12	5,544.31	209.41	126.99	-90.809	6,490.99	-5,867.86	347.23	161.44	185.79	1.869 Level 3<2.00
14,500.00	5,612.61	5,545.93	5,545.11	211.72	127.01	-91.076	6,490.99	-5,867.86	436.99	260.40	176.59	2.475
14,600.00	5,613.42	5,546.73	5,545.92	214.03	127.02	-91.344	6,490.99	-5,867.86	530.42	359.52	170.91	3.104
14,700.00	5,614.22	5,547.53	5,546.72	216.34	127.04	-91.612	6,490.99	-5,867.86	625.89	458.75	167.14	3.745
14,800.00	5,615.02	5,548.33	5,547.52	218.65	127.06	-91.879	6,490.99	-5,867.86	722.58	558.07	164.51	4.392
14,900.00	5,615.82	5,549.13	5,548.32	220.96	127.08	-92.147	6,490.99	-5,867.86	820.06	657.46	162.60	5.043
15,000.00	5,616.62	5,549.93	5,549.12	223.27	127.09	-92.414	6,490.99	-5,867.86	918.09	756.91	161.18	5.696
15,100.00	5,617.42	5,550.73	5,549.92	225.58	127.11	-92.681	6,490.99	-5,867.86	1,016.50	856.40	160.10	6.349
15,200.00	5,618.22	5,551.53	5,550.72	227.89	127.13	-92.948	6,490.99	-5,867.86	1,115.19	955.94	159.25	7.003
15,300.00	5,619.03	5,552.34	5,551.53	230.20	127.15	-93.215	6,490.99	-5,867.86	1,214.09	1,055.50	158.59	7.655
15,400.00	5,619.83	5,553.14	5,552.33	232.51	127.17	-93.482	6,490.99	-5,867.86	1,313.16	1,155.10	158.07	8.308
15,500.00	5,620.63	5,553.94	5,553.13	234.82	127.18	-93.749	6,490.99	-5,867.86	1,412.37	1,254.72	157.65	8.959
15,600.00	5,621.43	5,554.74	5,553.93	237.13	127.20	-94.016	6,490.99	-5,867.86	1,511.67	1,354.36	157.32	9.609
15,700.00	5,622.23	5,555.54	5,554.73	239.44	127.22	-94.282	6,490.99	-5,867.86	1,611.06	1,454.02	157.04	10.259
15,800.00	5,623.03	5,556.34	5,555.53	241.75	127.24	-94.548	6,490.99	-5,867.86	1,710.53	1,553.69	156.83	10.907
15,900.00	5,623.83	5,557.14	5,556.33	244.06	127.25	-94.814	6,490.99	-5,867.86	1,810.05	1,653.39	156.66	11.554
16,000.00	5,624.64	5,557.95	5,557.14	246.38	127.27	-95.080	6,490.99	-5,867.86	1,909.62	1,753.09	156.52	12.200
16,100.00	5,625.44	5,558.75	5,557.94	248.69	127.29	-95.346	6,490.99	-5,867.86	2,009.23	1,852.81	156.42	12.845
16,200.00	5,626.24	5,559.55	5,558.74	251.00	127.31	-95.611	6,490.99	-5,867.86	2,108.88	1,952.54	156.34	13.489
16,300.00	5,627.04	5,560.35	5,559.54	253.31	127.32	-95.876	6,490.99	-5,867.86	2,208.56	2,052.28	156.28	14.132

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 24 T24N R07W - Lybrook Fed 005 - Orig hole - Inc only surveys												Offset Site Error:	0.00 ft
Survey Program: 100-INC-ONLY												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8,800.00	5,566.94	5,552.13	5,549.44	81.22	149.70	84.219	4,595.93	-3,410.27	2,220.84	2,048.14	172.69	12.860	
8,900.00	5,567.74	5,552.93	5,550.24	83.46	149.72	84.478	4,595.93	-3,410.27	2,121.17	1,948.42	172.75	12.279	
9,000.00	5,568.54	5,553.73	5,551.04	85.71	149.73	84.738	4,595.93	-3,410.27	2,021.53	1,848.72	172.81	11.698	
9,100.00	5,569.34	5,554.53	5,551.84	87.96	149.75	84.998	4,595.93	-3,410.27	1,921.93	1,749.04	172.88	11.117	
9,200.00	5,570.14	5,555.33	5,552.64	90.21	149.76	85.258	4,595.93	-3,410.27	1,822.37	1,649.39	172.98	10.535	
9,300.00	5,570.94	5,556.14	5,553.44	92.47	149.78	85.518	4,595.93	-3,410.27	1,722.86	1,549.77	173.10	9.953	
9,400.00	5,571.75	5,556.94	5,554.25	94.73	149.79	85.779	4,595.93	-3,410.27	1,623.42	1,450.18	173.24	9.371	
9,500.00	5,572.55	5,557.74	5,555.05	96.99	149.81	86.040	4,595.93	-3,410.27	1,524.04	1,350.63	173.42	8.788	
9,600.00	5,573.35	5,558.54	5,555.85	99.25	149.82	86.300	4,595.93	-3,410.27	1,424.76	1,251.11	173.64	8.205	
9,700.00	5,574.15	5,559.34	5,556.65	101.52	149.84	86.561	4,595.93	-3,410.27	1,325.58	1,151.65	173.92	7.622	
9,800.00	5,574.95	5,560.14	5,557.45	103.79	149.85	86.823	4,595.93	-3,410.27	1,226.53	1,052.24	174.28	7.038	
9,900.00	5,575.75	5,560.94	5,558.25	106.06	149.86	87.084	4,595.93	-3,410.27	1,127.65	952.90	174.75	6.453	
10,000.00	5,576.55	5,561.74	5,559.05	108.34	149.88	87.345	4,595.93	-3,410.27	1,028.98	853.64	175.35	5.868	
10,100.00	5,577.36	5,562.55	5,559.86	110.61	149.89	87.607	4,595.93	-3,410.27	930.60	754.47	176.14	5.283	
10,200.00	5,578.16	5,563.35	5,560.66	112.89	149.91	87.868	4,595.93	-3,410.27	832.61	655.41	177.20	4.699	
10,300.00	5,578.96	5,564.15	5,561.46	115.17	149.92	88.130	4,595.93	-3,410.27	735.15	556.50	178.65	4.115	
10,400.00	5,579.76	5,564.95	5,562.26	117.45	149.94	88.392	4,595.93	-3,410.27	638.48	457.78	180.70	3.533	
10,500.00	5,580.56	5,565.75	5,563.06	119.73	149.95	88.654	4,595.93	-3,410.27	543.02	359.32	183.70	2.956	
10,600.00	5,581.36	5,566.55	5,563.86	122.02	149.97	88.915	4,595.93	-3,410.27	449.53	261.23	188.30	2.387	
10,700.00	5,582.16	5,567.35	5,564.66	124.30	149.98	89.177	4,595.93	-3,410.27	359.57	163.76	195.81	1.836 Level 3<2.00	
10,800.00	5,582.97	5,568.16	5,565.47	126.59	150.00	89.439	4,595.93	-3,410.27	276.58	67.44	209.14	1.322 Level 3<2.00	
10,900.00	5,583.77	5,568.96	5,566.27	128.88	150.01	89.701	4,595.93	-3,410.27	209.04	-26.91	235.96	0.886 Level 3<2.00	
11,000.00	5,584.57	5,569.76	5,567.07	131.17	150.02	89.963	4,595.93	-3,410.27	175.79	-101.82	277.62	0.633 Level 3<2.00	
11,013.98	5,584.68	5,569.87	5,567.18	131.49	150.03	90.000	4,595.93	-3,410.27	175.24	-104.70	279.93	0.626 Level 3<2.00, CC, ES, SF	
11,100.00	5,585.37	5,570.56	5,567.87	133.46	150.04	90.225	4,595.93	-3,410.27	195.21	-65.39	260.60	0.749 Level 3<2.00	
11,200.00	5,586.17	5,571.36	5,568.67	135.75	150.05	90.487	4,595.93	-3,410.27	255.55	28.21	227.34	1.124 Level 3<2.00	
11,300.00	5,586.97	5,572.16	5,569.47	138.04	150.07	90.749	4,595.93	-3,410.27	335.42	124.35	211.07	1.589 Level 3<2.00	
11,400.00	5,587.77	5,572.96	5,570.27	140.33	150.08	91.011	4,595.93	-3,410.27	423.92	222.03	201.89	2.100	
11,500.00	5,588.57	5,573.76	5,571.07	142.63	150.10	91.273	4,595.93	-3,410.27	516.63	320.41	196.21	2.633	
11,600.00	5,589.38	5,574.57	5,571.88	144.92	150.11	91.535	4,595.93	-3,410.27	611.64	419.20	192.44	3.178	
11,700.00	5,590.18	5,575.37	5,572.68	147.22	150.13	91.797	4,595.93	-3,410.27	708.02	518.24	189.78	3.731	
11,800.00	5,590.98	5,576.17	5,573.48	149.52	150.14	92.058	4,595.93	-3,410.27	805.29	617.45	187.84	4.287	
11,900.00	5,591.78	5,576.97	5,574.28	151.81	150.16	92.320	4,595.93	-3,410.27	903.15	716.79	186.36	4.846	
12,000.00	5,592.58	5,577.77	5,575.08	154.11	150.17	92.582	4,595.93	-3,410.27	1,001.43	816.22	185.21	5.407	
12,100.00	5,593.38	5,578.57	5,575.88	156.41	150.18	92.843	4,595.93	-3,410.27	1,100.03	915.72	184.31	5.968	
12,200.00	5,594.18	5,579.37	5,576.68	158.71	150.20	93.104	4,595.93	-3,410.27	1,198.85	1,015.28	183.57	6.531	
12,300.00	5,594.99	5,580.18	5,577.49	161.01	150.21	93.366	4,595.93	-3,410.27	1,297.86	1,114.88	182.97	7.093	
12,400.00	5,595.79	5,580.98	5,578.29	163.31	150.23	93.627	4,595.93	-3,410.27	1,397.01	1,214.53	182.48	7.656	
12,500.00	5,596.59	5,581.78	5,579.09	165.61	150.24	93.887	4,595.93	-3,410.27	1,496.26	1,314.20	182.07	8.218	
12,600.00	5,597.39	5,582.58	5,579.89	167.91	150.26	94.148	4,595.93	-3,410.27	1,595.62	1,413.89	181.72	8.781	
12,700.00	5,598.19	5,583.38	5,580.69	170.21	150.27	94.409	4,595.93	-3,410.27	1,695.04	1,513.61	181.43	9.343	
12,800.00	5,598.99	5,584.18	5,581.49	172.52	150.29	94.669	4,595.93	-3,410.27	1,794.53	1,613.35	181.18	9.905	
12,900.00	5,599.79	5,584.98	5,582.29	174.82	150.30	94.929	4,595.93	-3,410.27	1,894.08	1,713.11	180.97	10.466	
13,000.00	5,600.59	5,585.79	5,583.09	177.12	150.32	95.189	4,595.93	-3,410.27	1,993.67	1,812.88	180.79	11.027	
13,100.00	5,601.40	5,586.59	5,583.90	179.43	150.33	95.449	4,595.93	-3,410.27	2,093.30	1,912.66	180.64	11.588	
13,200.00	5,602.20	5,587.39	5,584.70	181.73	150.34	95.708	4,595.93	-3,410.27	2,192.96	2,012.45	180.51	12.149	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 24 T24N R07W - Pre ongard 001 (Grace Federal 24) - Orig hole - Inc only surveys												Offset Site Error:	0.00 ft
Survey Program: 849-INC-ONLY												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
12,700.00	5,598.19	5,580.64	5,579.50	170.21	155.63	90.080	7,405.40	-6,042.39	2,189.82	2,003.37	186.45	11.745	
12,800.00	5,598.99	5,580.76	5,579.63	172.52	155.64	90.100	7,405.40	-6,042.39	2,091.28	1,903.98	187.30	11.166	
12,900.00	5,599.79	5,580.88	5,579.75	174.82	155.64	90.118	7,405.40	-6,042.39	1,992.89	1,804.64	188.24	10.587	
13,000.00	5,600.59	5,581.00	5,579.86	177.12	155.64	90.137	7,405.40	-6,042.39	1,894.66	1,705.34	189.32	10.008	
13,100.00	5,601.40	5,581.12	5,579.98	179.43	155.64	90.155	7,405.40	-6,042.39	1,796.63	1,606.10	190.54	9.429	
13,200.00	5,602.20	5,581.23	5,580.09	181.73	155.65	90.173	7,405.40	-6,042.39	1,698.83	1,506.90	191.93	8.851	
13,300.00	5,603.00	5,581.34	5,580.21	184.03	155.65	90.191	7,405.39	-6,042.39	1,601.30	1,407.78	193.52	8.275	
13,400.00	5,603.80	5,581.45	5,580.32	186.34	155.65	90.208	7,405.39	-6,042.39	1,504.10	1,308.73	195.37	7.699	
13,500.00	5,604.60	5,581.56	5,580.42	188.65	155.66	90.225	7,405.39	-6,042.39	1,407.29	1,209.78	197.51	7.125	
13,600.00	5,605.40	5,581.67	5,580.53	190.95	155.66	90.242	7,405.39	-6,042.39	1,310.95	1,110.94	200.02	6.554	
13,700.00	5,606.20	5,581.77	5,580.63	193.26	155.66	90.258	7,405.39	-6,042.39	1,215.21	1,012.22	202.99	5.987	
13,800.00	5,607.01	5,581.87	5,580.74	195.56	155.66	90.274	7,405.39	-6,042.39	1,120.22	913.67	206.55	5.424	
13,900.00	5,607.81	5,581.97	5,580.84	197.87	155.67	90.290	7,405.39	-6,042.39	1,026.17	815.33	210.84	4.867	
14,000.00	5,608.61	5,582.07	5,580.94	200.18	155.67	90.306	7,405.39	-6,042.39	933.37	717.25	216.11	4.319	
14,100.00	5,609.41	5,582.17	5,581.04	202.49	155.67	90.321	7,405.39	-6,042.39	842.21	619.53	222.68	3.782	
14,200.00	5,610.21	5,582.27	5,581.13	204.79	155.67	90.336	7,405.38	-6,042.39	753.30	522.30	231.00	3.261	
14,300.00	5,611.01	5,582.36	5,581.23	207.10	155.67	90.351	7,405.38	-6,042.39	667.53	425.80	241.74	2.761	
14,400.00	5,611.81	5,582.46	5,581.32	209.41	155.68	90.366	7,405.38	-6,042.39	586.30	330.41	255.88	2.291	
14,500.00	5,612.61	5,582.55	5,581.41	211.72	155.68	90.380	7,405.38	-6,042.39	511.75	236.94	274.81	1.862 Level 3<2.00	
14,600.00	5,613.42	5,582.64	5,581.50	214.03	155.68	90.394	7,405.38	-6,042.39	447.25	147.08	300.16	1.490 Level 3<2.00	
14,700.00	5,614.22	5,582.73	5,581.59	216.34	155.68	90.408	7,405.38	-6,042.39	397.71	65.27	332.44	1.196 Level 3<2.00	
14,800.00	5,615.02	5,582.81	5,581.68	218.65	155.69	90.422	7,405.38	-6,042.39	369.21	4.39	364.82	1.012 Level 3<2.00	
14,859.29	5,615.49	5,582.86	5,581.73	220.02	155.69	90.430	7,405.38	-6,042.39	364.42	-10.36	374.78	0.972 Level 3<2.00, CC, ES, SF	
14,900.00	5,615.82	5,582.90	5,581.76	220.96	155.69	90.435	7,405.38	-6,042.39	366.69	-7.58	374.27	0.980 Level 3<2.00	
15,000.00	5,616.62	5,582.98	5,581.85	223.27	155.69	90.449	7,405.38	-6,042.39	390.64	38.56	352.09	1.110 Level 3<2.00	
15,100.00	5,617.42	5,583.07	5,581.93	225.58	155.69	90.462	7,405.38	-6,042.39	436.74	114.93	321.81	1.357 Level 3<2.00	
15,200.00	5,618.22	5,583.15	5,582.01	227.89	155.69	90.475	7,405.38	-6,042.39	498.89	202.64	296.24	1.684 Level 3<2.00	
15,300.00	5,619.03	5,583.23	5,582.10	230.20	155.70	90.488	7,405.38	-6,042.39	571.87	295.16	276.71	2.067	
15,400.00	5,619.83	5,583.31	5,582.18	232.51	155.70	90.500	7,405.37	-6,042.39	652.05	390.06	261.99	2.489	
15,500.00	5,620.63	5,583.39	5,582.25	234.82	155.70	90.513	7,405.37	-6,042.39	737.10	486.33	250.77	2.939	
15,600.00	5,621.43	5,583.47	5,582.33	237.13	155.70	90.525	7,405.37	-6,042.39	825.51	583.45	242.06	3.410	
15,700.00	5,622.23	5,583.54	5,582.41	239.44	155.70	90.537	7,405.37	-6,042.39	916.30	681.13	235.17	3.896	
15,800.00	5,623.03	5,583.62	5,582.48	241.75	155.71	90.549	7,405.37	-6,042.39	1,008.83	779.21	229.63	4.393	
15,900.00	5,623.83	5,583.69	5,582.56	244.06	155.71	90.560	7,405.37	-6,042.39	1,102.67	877.58	225.09	4.899	
16,000.00	5,624.64	5,583.77	5,582.63	246.38	155.71	90.572	7,405.37	-6,042.39	1,197.51	976.18	221.33	5.410	
16,100.00	5,625.44	5,583.84	5,582.70	248.69	155.71	90.583	7,405.37	-6,042.39	1,293.13	1,074.95	218.17	5.927	
16,200.00	5,626.24	5,583.91	5,582.78	251.00	155.71	90.595	7,405.37	-6,042.39	1,389.36	1,173.87	215.49	6.447	
16,300.00	5,627.04	5,583.98	5,582.85	253.31	155.71	90.606	7,405.37	-6,042.39	1,486.09	1,272.89	213.19	6.971	
16,400.00	5,627.84	5,584.05	5,582.91	255.62	155.72	90.616	7,405.37	-6,042.39	1,583.23	1,372.01	211.21	7.496	
16,500.00	5,628.64	5,584.12	5,582.98	257.94	155.72	90.627	7,405.37	-6,042.39	1,680.70	1,471.21	209.48	8.023	
16,600.00	5,629.44	5,584.19	5,583.05	260.25	155.72	90.638	7,405.37	-6,042.39	1,778.45	1,570.48	207.97	8.551	
16,700.00	5,630.24	5,584.25	5,583.12	262.56	155.72	90.648	7,405.36	-6,042.39	1,876.44	1,669.81	206.64	9.081	
16,800.00	5,631.05	5,584.32	5,583.18	264.88	155.72	90.659	7,405.36	-6,042.39	1,974.63	1,769.18	205.46	9.611	
16,900.00	5,631.85	5,584.38	5,583.25	267.19	155.72	90.669	7,405.36	-6,042.39	2,073.00	1,868.59	204.40	10.142	
17,000.00	5,632.65	5,584.45	5,583.31	269.50	155.73	90.679	7,405.36	-6,042.39	2,171.51	1,968.05	203.46	10.673	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 24 T24N R07W - Pre ongard 001 (Reynolds Killarney 24) - Orig hole - No surveys												Offset Site Error:	0.00 ft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,800.00	5,574.95	5,538.45	5,538.45	103.79	221.58	-87.489	4,861.87	-4,513.17	2,227.82	1,973.72	254.10	8.767	
9,900.00	5,575.75	5,539.25	5,539.25	106.06	221.62	-87.603	4,861.87	-4,513.17	2,129.53	1,874.60	254.94	8.353	
10,000.00	5,576.55	5,540.05	5,540.05	108.34	221.65	-87.718	4,861.87	-4,513.17	2,031.41	1,775.55	255.86	7.940	
10,100.00	5,577.36	5,540.86	5,540.86	110.61	221.68	-87.832	4,861.87	-4,513.17	1,933.47	1,676.60	256.88	7.527	
10,200.00	5,578.16	5,541.66	5,541.66	112.89	221.71	-87.947	4,861.87	-4,513.17	1,835.76	1,577.74	258.02	7.115	
10,300.00	5,578.96	5,542.46	5,542.46	115.17	221.74	-88.061	4,861.87	-4,513.17	1,738.31	1,479.01	259.30	6.704	
10,400.00	5,579.76	5,543.26	5,543.26	117.45	221.78	-88.176	4,861.87	-4,513.17	1,641.16	1,380.41	260.75	6.294	
10,500.00	5,580.56	5,544.06	5,544.06	119.73	221.81	-88.290	4,861.87	-4,513.17	1,544.38	1,281.98	262.40	5.886	
10,600.00	5,581.36	5,544.86	5,544.86	122.02	221.84	-88.405	4,861.87	-4,513.17	1,448.04	1,183.74	264.30	5.479	
10,700.00	5,582.16	5,545.66	5,545.66	124.30	221.87	-88.520	4,861.87	-4,513.17	1,352.22	1,085.74	266.48	5.074	
10,800.00	5,582.97	5,546.47	5,546.47	126.59	221.90	-88.634	4,861.87	-4,513.17	1,257.06	988.04	269.02	4.673	
10,900.00	5,583.77	5,547.27	5,547.27	128.88	221.94	-88.749	4,861.87	-4,513.17	1,162.71	890.70	272.01	4.274	
11,000.00	5,584.57	5,548.07	5,548.07	131.17	221.97	-88.863	4,861.87	-4,513.17	1,069.39	793.82	275.56	3.881	
11,100.00	5,585.37	5,548.87	5,548.87	133.46	222.00	-88.978	4,861.87	-4,513.17	977.38	697.55	279.83	3.493	
11,200.00	5,586.17	5,549.67	5,549.67	135.75	222.03	-89.092	4,861.87	-4,513.17	887.11	602.09	285.02	3.112	
11,300.00	5,586.97	5,550.47	5,550.47	138.04	222.06	-89.207	4,861.87	-4,513.17	799.16	507.75	291.41	2.742	
11,400.00	5,587.77	5,551.27	5,551.27	140.33	222.10	-89.322	4,861.87	-4,513.17	714.38	415.02	299.36	2.386	
11,500.00	5,588.57	5,552.07	5,552.07	142.63	222.13	-89.436	4,861.87	-4,513.17	634.06	324.69	309.37	2.050	
11,600.00	5,589.38	5,552.88	5,552.88	144.92	222.16	-89.551	4,861.87	-4,513.17	560.10	238.16	321.94	1.740	Level 3<2.00
11,700.00	5,590.18	5,553.68	5,553.68	147.22	222.19	-89.666	4,861.87	-4,513.17	495.37	158.01	337.37	1.468	Level 3<2.00
11,800.00	5,590.98	5,554.48	5,554.48	149.52	222.22	-89.780	4,861.87	-4,513.17	443.93	89.17	354.76	1.251	Level 3<2.00
11,900.00	5,591.78	5,555.28	5,555.28	151.81	222.26	-89.895	4,861.87	-4,513.17	410.80	40.65	370.15	1.110	Level 3<2.00
11,991.61	5,592.51	5,556.01	5,556.01	153.92	222.29	-90.000	4,861.87	-4,513.17	400.46	24.53	375.93	1.065	Level 3<2.00, CC, ES, SF
12,000.00	5,592.58	5,556.08	5,556.08	154.11	222.29	-90.010	4,861.87	-4,513.17	400.55	24.68	375.87	1.066	Level 3<2.00
12,100.00	5,593.38	5,556.88	5,556.88	156.41	222.32	-90.124	4,861.87	-4,513.17	414.87	47.01	367.85	1.128	Level 3<2.00
12,200.00	5,594.18	5,557.68	5,557.68	158.71	222.35	-90.239	4,861.87	-4,513.17	451.43	99.79	351.64	1.284	Level 3<2.00
12,300.00	5,594.99	5,558.49	5,558.49	161.01	222.38	-90.354	4,861.87	-4,513.17	505.44	170.94	334.49	1.511	Level 3<2.00
12,400.00	5,595.79	5,559.29	5,559.29	163.31	222.42	-90.468	4,861.87	-4,513.17	571.96	252.27	319.69	1.789	Level 3<2.00
12,500.00	5,596.59	5,560.09	5,560.09	165.61	222.45	-90.583	4,861.87	-4,513.17	647.16	339.37	307.79	2.103	
12,600.00	5,597.39	5,560.89	5,560.89	167.91	222.48	-90.697	4,861.87	-4,513.17	728.34	429.95	298.39	2.441	
12,700.00	5,598.19	5,561.69	5,561.69	170.21	222.51	-90.812	4,861.87	-4,513.17	813.73	522.75	290.98	2.797	
12,800.00	5,598.99	5,562.49	5,562.49	172.52	222.54	-90.927	4,861.87	-4,513.17	902.12	617.04	285.08	3.164	
12,900.00	5,599.79	5,563.29	5,563.29	174.82	222.58	-91.041	4,861.87	-4,513.17	992.72	712.39	280.33	3.541	
13,000.00	5,600.59	5,564.09	5,564.09	177.12	222.61	-91.156	4,861.87	-4,513.17	1,084.97	808.50	276.46	3.924	
13,100.00	5,601.40	5,564.90	5,564.90	179.43	222.64	-91.271	4,861.87	-4,513.17	1,178.48	905.20	273.29	4.312	
13,200.00	5,602.20	5,565.70	5,565.70	181.73	222.67	-91.385	4,861.87	-4,513.17	1,272.98	1,002.34	270.65	4.704	
13,300.00	5,603.00	5,566.50	5,566.50	184.03	222.71	-91.500	4,861.87	-4,513.17	1,368.27	1,099.84	268.43	5.097	
13,400.00	5,603.80	5,567.30	5,567.30	186.34	222.74	-91.614	4,861.87	-4,513.17	1,464.18	1,197.62	266.56	5.493	
13,500.00	5,604.60	5,568.10	5,568.10	188.65	222.77	-91.729	4,861.87	-4,513.17	1,560.60	1,295.64	264.96	5.890	
13,600.00	5,605.40	5,568.90	5,568.90	190.95	222.80	-91.843	4,861.87	-4,513.17	1,657.45	1,393.85	263.60	6.288	
13,700.00	5,606.20	5,569.70	5,569.70	193.26	222.83	-91.958	4,861.87	-4,513.17	1,754.65	1,492.23	262.42	6.686	
13,800.00	5,607.01	5,570.51	5,570.51	195.56	222.87	-92.072	4,861.87	-4,513.17	1,852.15	1,590.74	261.40	7.085	
13,900.00	5,607.81	5,571.31	5,571.31	197.87	222.90	-92.187	4,861.87	-4,513.17	1,949.90	1,689.38	260.51	7.485	
14,000.00	5,608.61	5,572.11	5,572.11	200.18	222.93	-92.301	4,861.87	-4,513.17	2,047.87	1,788.12	259.74	7.884	
14,100.00	5,609.41	5,572.91	5,572.91	202.49	222.96	-92.416	4,861.87	-4,513.17	2,146.02	1,886.96	259.06	8.284	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 24 T24N R07W - Rincon Largo Federal 24 002 - Orig hole - No surveys												Offset Site Error:	0.00 ft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,700.00	5,582.16	5,589.66	5,589.66	124.30	223.63	-89.137	4,865.81	-5,444.08	2,224.10	1,935.68	288.42	7.711	
10,800.00	5,582.97	5,590.47	5,590.47	126.59	223.66	-89.181	4,865.81	-5,444.08	2,136.34	1,844.81	291.53	7.328	
10,900.00	5,583.77	5,591.27	5,591.27	128.88	223.70	-89.225	4,865.81	-5,444.08	2,049.71	1,754.81	294.90	6.951	
11,000.00	5,584.57	5,592.07	5,592.07	131.17	223.73	-89.269	4,865.81	-5,444.08	1,964.34	1,665.80	298.54	6.580	
11,100.00	5,585.37	5,592.87	5,592.87	133.46	223.76	-89.313	4,865.81	-5,444.08	1,880.42	1,577.92	302.50	6.216	
11,200.00	5,586.17	5,593.67	5,593.67	135.75	223.79	-89.357	4,865.81	-5,444.08	1,798.14	1,491.34	306.79	5.861	
11,300.00	5,586.97	5,594.47	5,594.47	138.04	223.82	-89.401	4,865.81	-5,444.08	1,717.74	1,406.29	311.45	5.515	
11,400.00	5,587.77	5,595.27	5,595.27	140.33	223.86	-89.445	4,865.81	-5,444.08	1,639.50	1,322.99	316.50	5.180	
11,500.00	5,588.57	5,596.07	5,596.07	142.63	223.89	-89.489	4,865.81	-5,444.08	1,563.74	1,241.77	321.97	4.857	
11,600.00	5,589.38	5,596.88	5,596.88	144.92	223.92	-89.533	4,865.81	-5,444.08	1,490.84	1,162.98	327.86	4.547	
11,700.00	5,590.18	5,597.68	5,597.68	147.22	223.95	-89.577	4,865.81	-5,444.08	1,421.24	1,087.05	334.19	4.253	
11,800.00	5,590.98	5,598.48	5,598.48	149.52	223.98	-89.621	4,865.81	-5,444.08	1,355.45	1,014.52	340.92	3.976	
11,900.00	5,591.78	5,599.28	5,599.28	151.81	224.02	-89.665	4,865.81	-5,444.08	1,294.05	946.03	348.02	3.718	
12,000.00	5,592.58	5,600.08	5,600.08	154.11	224.05	-89.708	4,865.81	-5,444.08	1,237.69	882.31	355.39	3.483	
12,100.00	5,593.38	5,600.88	5,600.88	156.41	224.08	-89.752	4,865.81	-5,444.08	1,187.10	824.23	362.86	3.271	
12,200.00	5,594.18	5,601.68	5,601.68	158.71	224.11	-89.796	4,865.81	-5,444.08	1,143.03	772.80	370.23	3.087	
12,300.00	5,594.99	5,602.49	5,602.49	161.01	224.14	-89.840	4,865.81	-5,444.08	1,106.27	729.07	377.20	2.933	
12,400.00	5,595.79	5,603.29	5,603.29	163.31	224.18	-89.884	4,865.81	-5,444.08	1,077.57	694.15	383.41	2.810	
12,500.00	5,596.59	5,604.09	5,604.09	165.61	224.21	-89.928	4,865.81	-5,444.08	1,057.57	669.08	388.49	2.722	
12,600.00	5,597.39	5,604.89	5,604.89	167.91	224.24	-89.972	4,865.81	-5,444.08	1,046.79	654.70	392.09	2.670	
12,663.45	5,597.90	5,605.40	5,605.40	169.37	224.26	-90.000	4,865.81	-5,444.08	1,044.87	651.37	393.50	2.655 CC, ES	
12,700.00	5,598.19	5,605.69	5,605.69	170.21	224.27	-90.016	4,865.81	-5,444.08	1,045.51	651.53	393.98	2.654 SF	
12,800.00	5,598.99	5,606.49	5,606.49	172.52	224.30	-90.060	4,865.81	-5,444.08	1,053.75	659.69	394.06	2.674	
12,900.00	5,599.79	5,607.29	5,607.29	174.82	224.34	-90.104	4,865.81	-5,444.08	1,071.31	678.88	392.43	2.730	
13,000.00	5,600.59	5,608.09	5,608.09	177.12	224.37	-90.148	4,865.81	-5,444.08	1,097.73	708.41	389.32	2.820	
13,100.00	5,601.40	5,608.90	5,608.90	179.43	224.40	-90.192	4,865.81	-5,444.08	1,132.39	747.34	385.06	2.941	
13,200.00	5,602.20	5,609.70	5,609.70	181.73	224.43	-90.236	4,865.81	-5,444.08	1,174.57	794.59	379.98	3.091	
13,300.00	5,603.00	5,610.50	5,610.50	184.03	224.47	-90.280	4,865.81	-5,444.08	1,223.49	849.07	374.42	3.268	
13,400.00	5,603.80	5,611.30	5,611.30	186.34	224.50	-90.324	4,865.81	-5,444.08	1,278.37	909.72	368.64	3.468	
13,500.00	5,604.60	5,612.10	5,612.10	188.65	224.53	-90.368	4,865.81	-5,444.08	1,338.48	975.63	362.85	3.689	
13,600.00	5,605.40	5,612.90	5,612.90	190.95	224.56	-90.412	4,865.81	-5,444.08	1,403.15	1,045.96	357.18	3.928	
13,700.00	5,606.20	5,613.70	5,613.70	193.26	224.59	-90.455	4,865.81	-5,444.08	1,471.77	1,120.03	351.74	4.184	
13,800.00	5,607.01	5,614.51	5,614.51	195.56	224.63	-90.499	4,865.81	-5,444.08	1,543.83	1,197.25	346.58	4.454	
13,900.00	5,607.81	5,615.31	5,615.31	197.87	224.66	-90.543	4,865.81	-5,444.08	1,618.86	1,277.14	341.72	4.737	
14,000.00	5,608.61	5,616.11	5,616.11	200.18	224.69	-90.587	4,865.81	-5,444.08	1,696.47	1,359.28	337.19	5.031	
14,100.00	5,609.41	5,616.91	5,616.91	202.49	224.72	-90.631	4,865.81	-5,444.08	1,776.32	1,443.36	332.96	5.335	
14,200.00	5,610.21	5,617.71	5,617.71	204.79	224.75	-90.675	4,865.81	-5,444.08	1,858.11	1,529.08	329.03	5.647	
14,300.00	5,611.01	5,618.51	5,618.51	207.10	224.79	-90.719	4,865.81	-5,444.08	1,941.62	1,616.22	325.39	5.967	
14,400.00	5,611.81	5,619.31	5,619.31	209.41	224.82	-90.763	4,865.81	-5,444.08	2,026.61	1,704.60	322.02	6.293	
14,500.00	5,612.61	5,620.11	5,620.11	211.72	224.85	-90.807	4,865.81	-5,444.08	2,112.93	1,794.04	318.89	6.626	
14,600.00	5,613.42	5,620.92	5,620.92	214.03	224.88	-90.851	4,865.81	-5,444.08	2,200.40	1,884.40	315.99	6.963	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 040H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-153.117	-35.81	-18.15	40.15					
100.00	100.00	100.00	100.00	0.27	0.27	-153.117	-35.81	-18.15	40.15	39.60	0.55	73.203		
200.00	200.00	200.00	200.00	0.63	0.63	-153.117	-35.81	-18.15	40.15	38.88	1.27	31.728		
300.00	300.00	300.00	300.00	0.99	0.99	-153.117	-35.81	-18.15	40.15	38.17	1.98	20.253		
400.00	400.00	400.00	400.00	1.35	1.35	-153.117	-35.81	-18.15	40.15	37.45	2.70	14.874		
500.00	500.00	500.00	500.00	1.71	1.71	-153.117	-35.81	-18.15	40.15	36.73	3.42	11.752 CC, ES		
600.00	599.95	599.95	599.95	2.07	2.07	164.443	-35.81	-18.15	42.66	38.53	4.13	10.325 SF		
700.00	699.63	699.63	699.63	2.43	2.42	166.789	-35.81	-18.15	50.27	45.41	4.85	10.360		
800.00	798.77	798.77	798.77	2.80	2.78	169.429	-35.81	-18.15	63.05	57.47	5.57	11.310		
900.00	897.10	893.42	893.38	3.19	3.11	172.323	-36.95	-20.13	83.13	76.85	6.28	13.233		
1,000.00	995.08	985.47	985.18	3.61	3.42	175.157	-40.31	-25.95	109.55	102.62	6.94	15.796		
1,100.00	1,093.07	1,074.67	1,073.73	4.05	3.74	177.274	-46.06	-34.90	140.52	132.96	7.56	18.584		
1,200.00	1,191.06	1,160.98	1,158.88	4.49	4.05	178.575	-54.62	-46.10	175.93	167.77	8.16	21.563		
1,300.00	1,289.04	1,244.26	1,240.36	4.94	4.38	179.380	-65.67	-59.23	215.52	206.79	8.73	24.693		
1,400.00	1,387.03	1,324.36	1,317.97	5.39	4.72	179.882	-78.88	-73.99	259.01	249.74	9.27	27.944		
1,500.00	1,485.02	1,400.00	1,390.44	5.85	5.06	-179.811	-93.64	-89.82	306.18	296.41	9.76	31.363		
1,600.00	1,583.01	1,474.72	1,461.14	6.32	5.44	-179.619	-110.39	-107.24	356.77	346.51	10.26	34.770		
1,700.00	1,680.99	1,554.98	1,536.28	6.78	5.88	-179.489	-130.13	-127.40	409.87	399.03	10.84	37.805		
1,800.00	1,778.98	1,639.60	1,615.45	7.25	6.36	-179.384	-151.05	-148.74	463.14	451.66	11.49	40.324		
1,900.00	1,876.97	1,724.23	1,694.62	7.72	6.85	-179.301	-171.98	-170.09	516.42	504.28	12.13	42.557		
2,000.00	1,974.95	1,808.85	1,773.79	8.19	7.37	-179.233	-192.91	-191.43	569.70	556.91	12.79	44.543		
2,100.00	2,072.94	1,893.48	1,852.96	8.66	7.89	-179.177	-213.83	-212.77	622.97	609.52	13.45	46.316		
2,200.00	2,170.93	1,978.10	1,932.13	9.13	8.42	-179.130	-234.76	-234.12	676.25	662.13	14.12	47.908		
2,300.00	2,268.91	2,062.73	2,011.30	9.60	8.96	-179.090	-255.68	-255.46	729.53	714.74	14.78	49.346		
2,400.00	2,366.90	2,147.35	2,090.47	10.07	9.51	-179.055	-276.61	-276.80	782.80	767.35	15.46	50.649		
2,500.00	2,464.89	2,231.98	2,169.64	10.55	10.06	-179.024	-297.54	-298.15	836.08	819.95	16.13	51.835		
2,600.00	2,562.88	2,316.60	2,248.81	11.02	10.62	-178.998	-318.46	-319.49	889.36	872.55	16.81	52.917		
2,700.00	2,660.86	2,401.23	2,327.98	11.50	11.18	-178.974	-339.39	-340.83	942.64	925.15	17.49	53.909		
2,800.00	2,758.85	2,485.85	2,407.15	11.97	11.74	-178.953	-360.31	-362.18	995.91	977.75	18.17	54.819		
2,900.00	2,856.84	2,570.48	2,486.32	12.45	12.31	-178.934	-381.24	-383.52	1,049.19	1,030.34	18.85	55.659		
3,000.00	2,954.82	2,655.10	2,565.49	12.93	12.88	-178.916	-402.17	-404.86	1,102.47	1,082.93	19.54	56.435		
3,100.00	3,052.81	2,739.73	2,644.66	13.40	13.45	-178.901	-423.09	-426.21	1,155.75	1,135.53	20.22	57.154		
3,200.00	3,150.80	2,824.35	2,723.83	13.88	14.02	-178.887	-444.02	-447.55	1,209.03	1,188.12	20.91	57.822		
3,300.00	3,248.79	2,908.98	2,803.00	14.36	14.59	-178.873	-464.94	-468.89	1,262.30	1,240.71	21.60	58.445		
3,400.00	3,346.77	2,993.60	2,882.17	14.83	15.17	-178.862	-485.87	-490.24	1,315.58	1,293.29	22.29	59.025		
3,500.00	3,444.76	3,078.23	2,961.34	15.31	15.75	-178.850	-506.79	-511.58	1,368.86	1,345.88	22.98	59.568		
3,600.00	3,542.75	3,162.85	3,040.51	15.79	16.32	-178.840	-527.72	-532.92	1,422.14	1,398.47	23.67	60.077		
3,700.00	3,640.73	3,247.48	3,119.68	16.27	16.90	-178.831	-548.65	-554.27	1,475.42	1,451.05	24.37	60.554		
3,800.00	3,738.72	3,332.10	3,198.85	16.74	17.48	-178.822	-569.57	-575.61	1,528.70	1,503.64	25.06	61.003		
3,900.00	3,836.71	3,416.73	3,278.02	17.22	18.06	-178.814	-590.50	-596.95	1,581.98	1,556.22	25.75	61.425		
4,000.00	3,934.69	3,501.35	3,357.19	17.70	18.64	-178.806	-611.42	-618.30	1,635.25	1,608.80	26.45	61.824		
4,100.00	4,032.68	3,585.98	3,436.36	18.18	19.23	-178.799	-632.35	-639.64	1,688.53	1,661.39	27.15	62.200		
4,200.00	4,130.67	3,670.60	3,515.53	18.66	19.81	-178.792	-653.28	-660.98	1,741.81	1,713.97	27.84	62.556		
4,300.00	4,228.66	3,755.23	3,594.70	19.13	20.39	-178.786	-674.20	-682.33	1,795.09	1,766.55	28.54	62.893		
4,400.00	4,326.64	3,839.85	3,673.88	19.61	20.98	-178.780	-695.13	-703.67	1,848.37	1,819.13	29.24	63.212		
4,500.00	4,424.70	3,924.66	3,753.21	20.09	21.56	-178.788	-716.10	-725.06	1,901.36	1,871.42	29.94	63.507		
4,600.00	4,523.47	4,011.58	3,834.54	20.52	22.16	-178.815	-737.59	-746.98	1,950.77	1,920.12	30.64	63.662		
4,700.00	4,622.92	4,100.98	3,918.17	20.90	22.78	-178.834	-759.70	-769.53	1,995.56	1,964.21	31.35	63.650		
4,800.00	4,722.78	4,192.59	4,003.88	21.23	23.41	-178.846	-782.35	-792.64	2,035.62	2,003.55	32.07	63.479		
4,900.00	4,822.78	4,285.93	4,091.20	21.52	24.06	-135.421	-805.43	-816.18	2,071.49	2,038.71	32.78	63.187		
5,000.00	4,922.78	4,379.48	4,178.72	21.80	24.71	-135.404	-828.57	-839.77	2,106.81	2,073.30	33.51	62.879		
5,100.00	5,022.70	4,473.04	4,266.25	22.09	25.36	-83.967	-851.70	-863.37	2,141.94	2,107.71	34.22	62.587		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 040H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,200.00	5,120.99	4,565.56	4,352.80	22.36	26.00	-80.899	-874.58	-886.70	2,175.53	2,140.60	34.93	62.279		
5,300.00	5,214.71	4,654.32	4,435.85	22.61	26.62	-78.512	-896.53	-909.09	2,206.85	2,171.22	35.63	61.942		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 041H - Orig hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-152.887	-17.72	-9.07	19.91				
100.00	100.00	100.00	100.00	0.27	0.27	-152.887	-17.72	-9.07	19.91	19.36	0.55	36.304	
200.00	200.00	200.00	200.00	0.63	0.63	-152.887	-17.72	-9.07	19.91	18.65	1.27	15.735	
300.00	300.00	300.00	300.00	0.99	0.99	-152.887	-17.72	-9.07	19.91	17.93	1.98	10.044	
400.00	400.00	400.00	400.00	1.35	1.35	-152.887	-17.72	-9.07	19.91	17.21	2.70	7.376	
500.00	500.00	500.00	500.00	1.71	1.71	-152.887	-17.72	-9.07	19.91	16.50	3.42	5.828 CC, ES	
600.00	599.95	599.95	599.95	2.07	2.07	165.552	-17.72	-9.07	22.44	18.30	4.13	5.429	
700.00	699.63	699.63	699.63	2.43	2.42	169.237	-17.72	-9.07	30.10	25.24	4.85	6.203	
800.00	798.77	798.77	798.77	2.80	2.78	172.436	-17.72	-9.07	42.99	37.42	5.57	7.713	
900.00	897.10	897.10	897.10	3.19	3.13	174.637	-17.72	-9.07	61.04	54.73	6.30	9.686	
1,000.00	995.08	995.08	995.08	3.61	3.48	175.958	-17.72	-9.07	80.94	73.93	7.01	11.549	
1,100.00	1,093.07	1,089.37	1,089.34	4.05	3.81	177.502	-18.09	-11.13	102.54	94.85	7.69	13.329	
1,200.00	1,191.06	1,181.58	1,181.31	4.49	4.13	179.790	-19.22	-17.57	127.97	119.62	8.35	15.325	
1,300.00	1,289.04	1,273.72	1,272.95	4.94	4.45	-178.476	-22.23	-26.51	156.76	147.76	9.00	17.416	
1,400.00	1,387.03	1,367.35	1,366.01	5.39	4.78	-178.324	-28.84	-34.47	187.38	177.71	9.67	19.386	
1,500.00	1,485.02	1,462.48	1,460.54	5.85	5.12	-178.327	-35.99	-42.41	218.20	207.85	10.35	21.090	
1,600.00	1,583.01	1,557.62	1,555.07	6.32	5.47	-178.328	-43.15	-50.34	249.02	237.99	11.03	22.572	
1,700.00	1,680.99	1,652.75	1,649.60	6.78	5.82	-178.330	-50.30	-58.28	279.84	268.12	11.72	23.873	
1,800.00	1,778.98	1,747.88	1,744.13	7.25	6.17	-178.331	-57.45	-66.22	310.66	298.25	12.42	25.022	
1,900.00	1,876.97	1,843.01	1,838.66	7.72	6.53	-178.331	-64.60	-74.16	341.49	328.37	13.11	26.045	
2,000.00	1,974.95	1,938.14	1,933.19	8.19	6.89	-178.332	-71.76	-82.10	372.31	358.50	13.81	26.960	
2,100.00	2,072.94	2,033.28	2,027.72	8.66	7.25	-178.333	-78.91	-90.03	403.13	388.62	14.51	27.784	
2,200.00	2,170.93	2,128.41	2,122.25	9.13	7.62	-178.333	-86.06	-97.97	433.95	418.74	15.21	28.529	
2,300.00	2,268.91	2,223.54	2,216.78	9.60	7.99	-178.334	-93.22	-105.91	464.77	448.86	15.91	29.205	
2,400.00	2,366.90	2,318.67	2,311.31	10.07	8.35	-178.334	-100.37	-113.85	495.59	478.97	16.62	29.821	
2,500.00	2,464.89	2,413.80	2,405.84	10.55	8.72	-178.334	-107.52	-121.79	526.41	509.09	17.32	30.386	
2,600.00	2,562.88	2,508.93	2,500.37	11.02	9.10	-178.335	-114.67	-129.73	557.23	539.20	18.03	30.904	
2,700.00	2,660.86	2,604.07	2,594.90	11.50	9.47	-178.335	-121.83	-137.66	588.05	569.32	18.74	31.382	
2,800.00	2,758.85	2,699.20	2,689.43	11.97	9.84	-178.335	-128.98	-145.60	618.88	599.43	19.45	31.824	
2,900.00	2,856.84	2,794.33	2,783.96	12.45	10.22	-178.336	-136.13	-153.54	649.70	629.54	20.16	32.233	
3,000.00	2,954.82	2,889.46	2,878.49	12.93	10.59	-178.336	-143.28	-161.48	680.52	659.65	20.87	32.614	
3,100.00	3,052.81	2,984.59	2,973.02	13.40	10.97	-178.336	-150.44	-169.42	711.34	689.76	21.58	32.968	
3,200.00	3,150.80	3,079.73	3,067.55	13.88	11.35	-178.336	-157.59	-177.35	742.16	719.87	22.29	33.300	
3,300.00	3,248.79	3,174.86	3,162.08	14.36	11.72	-178.336	-164.74	-185.29	772.98	749.98	23.00	33.610	
3,400.00	3,346.77	3,269.99	3,256.61	14.83	12.10	-178.336	-171.90	-193.23	803.80	780.09	23.71	33.900	
3,500.00	3,444.76	3,365.12	3,351.14	15.31	12.48	-178.336	-179.05	-201.17	834.62	810.20	24.42	34.173	
3,600.00	3,542.75	3,460.25	3,445.67	15.79	12.86	-178.337	-186.20	-209.11	865.44	840.31	25.14	34.430	
3,700.00	3,640.73	3,555.38	3,540.20	16.27	13.24	-178.337	-193.35	-217.04	896.27	870.42	25.85	34.673	
3,800.00	3,738.72	3,650.52	3,634.73	16.74	13.62	-178.337	-200.51	-224.98	927.09	900.52	26.56	34.902	
3,900.00	3,836.71	3,745.65	3,729.26	17.22	14.00	-178.337	-207.66	-232.92	957.91	930.63	27.28	35.118	
4,000.00	3,934.69	3,840.78	3,823.79	17.70	14.38	-178.337	-214.81	-240.86	988.73	960.74	27.99	35.323	
4,100.00	4,032.68	3,935.91	3,918.82	18.18	14.76	-178.337	-221.96	-248.80	1,019.55	990.84	28.71	35.518	
4,200.00	4,130.67	4,031.04	4,012.85	18.66	15.14	-178.337	-229.12	-256.73	1,050.37	1,020.95	29.42	35.702	
4,300.00	4,228.66	4,126.18	4,107.38	19.13	15.52	-178.337	-236.27	-264.67	1,081.19	1,051.06	30.14	35.878	
4,400.00	4,326.64	4,221.31	4,201.91	19.61	15.90	-178.337	-243.42	-272.61	1,112.01	1,081.16	30.85	36.045	
4,500.00	4,424.70	4,316.54	4,296.54	20.09	16.28	-178.347	-250.58	-280.56	1,142.51	1,110.94	31.57	36.195	
4,600.00	4,523.47	4,412.95	4,392.34	20.52	16.67	-178.364	-257.83	-288.60	1,169.02	1,136.74	32.28	36.218	
4,700.00	4,622.92	4,510.62	4,489.39	20.90	17.06	-178.369	-265.17	-296.75	1,190.44	1,157.46	32.99	36.090	
4,800.00	4,722.78	4,605.68	4,673.71	21.23	17.77	-178.354	-275.81	-308.55	1,204.91	1,170.64	34.27	35.163	
4,900.00	4,822.78	4,844.76	4,822.78	21.52	18.26	-134.933	-276.87	-309.73	1,206.10	1,170.91	35.19	34.274	
5,000.00	4,922.78	4,944.76	4,922.78	21.80	18.58	-134.933	-276.87	-309.73	1,206.10	1,170.24	35.86	33.636	
5,100.00	5,022.70	5,038.75	5,016.62	22.09	18.88	-85.313	-274.37	-312.46	1,206.08	1,169.58	36.50	33.044	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 041H - Orig hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.00	5,120.99	5,130.05	5,106.13	22.36	19.19	-85.305	-262.50	-325.37	1,205.49	1,168.36	37.13	32.467	
5,300.00	5,214.71	5,221.25	5,191.62	22.61	19.50	-85.431	-241.20	-348.53	1,204.19	1,166.42	37.77	31.880	
5,400.00	5,301.02	5,312.54	5,271.12	22.84	19.80	-85.688	-210.96	-381.41	1,202.24	1,163.77	38.47	31.253	
5,500.00	5,377.28	5,404.12	5,342.74	23.05	20.12	-86.069	-172.44	-423.31	1,199.69	1,160.42	39.28	30.544	
5,600.00	5,441.19	5,496.18	5,404.69	23.26	20.49	-86.564	-126.43	-473.34	1,196.64	1,156.34	40.29	29.697	
5,700.00	5,490.80	5,588.94	5,455.29	23.50	20.99	-87.161	-73.89	-530.48	1,193.18	1,151.55	41.63	28.659	
5,800.00	5,524.60	5,682.59	5,493.01	23.86	21.67	-87.844	-15.95	-593.49	1,189.44	1,146.17	43.27	27.490	
5,900.00	5,541.57	5,777.32	5,516.48	24.48	22.57	-88.604	46.10	-660.97	1,185.55	1,140.26	45.30	26.173	
5,980.40	5,545.88	5,883.93	5,524.74	25.22	23.77	-88.961	118.63	-738.47	1,184.06	1,136.58	47.48	24.938	
6,000.00	5,544.50	5,903.60	5,524.91	25.44	24.01	-89.053	132.30	-752.60	1,185.25	1,137.24	48.01	24.686	
6,100.00	5,545.30	6,003.60	5,525.75	26.65	25.32	-89.055	201.83	-824.47	1,185.25	1,134.54	50.71	23.374	
6,200.00	5,546.10	6,103.60	5,526.59	28.03	26.78	-89.057	271.35	-896.35	1,185.25	1,131.58	53.67	22.084	
6,300.00	5,546.90	6,203.60	5,527.43	29.56	28.35	-89.059	340.88	-968.22	1,185.25	1,128.39	56.86	20.847	
6,400.00	5,547.71	6,303.60	5,528.27	31.18	30.03	-89.061	410.41	-1,040.09	1,185.24	1,125.01	60.23	19.678	
6,500.00	5,548.51	6,403.60	5,529.12	32.90	31.78	-89.063	479.93	-1,111.96	1,185.24	1,121.48	63.77	18.587	
6,600.00	5,549.31	6,503.60	5,529.96	34.69	33.61	-89.064	549.46	-1,183.83	1,185.24	1,117.81	67.44	17.576	
6,700.00	5,550.11	6,603.60	5,530.80	36.54	35.49	-89.066	618.99	-1,255.70	1,185.24	1,114.02	71.22	16.642	
6,800.00	5,550.91	6,703.60	5,531.64	38.44	37.43	-89.068	688.51	-1,327.57	1,185.24	1,110.14	75.10	15.783	
6,900.00	5,551.71	6,803.60	5,532.48	40.39	39.40	-89.070	758.04	-1,399.44	1,185.24	1,106.18	79.06	14.992	
7,000.00	5,552.51	6,903.60	5,533.32	42.38	41.41	-89.072	827.57	-1,471.31	1,185.24	1,102.15	83.09	14.265	
7,100.00	5,553.32	7,003.60	5,534.16	44.40	43.45	-89.074	897.09	-1,543.18	1,185.24	1,098.06	87.18	13.595	
7,200.00	5,554.12	7,103.60	5,535.00	46.44	45.52	-89.076	966.62	-1,615.05	1,185.24	1,093.91	91.33	12.978	
7,300.00	5,554.92	7,203.60	5,535.85	48.51	47.61	-89.078	1,036.14	-1,686.92	1,185.24	1,089.72	95.52	12.409	
7,400.00	5,555.72	7,303.60	5,536.69	50.61	49.73	-89.080	1,105.67	-1,758.79	1,185.23	1,085.49	99.75	11.882	
7,500.00	5,556.52	7,403.60	5,537.53	52.72	51.86	-89.082	1,175.20	-1,830.66	1,185.23	1,081.22	104.01	11.395	
7,600.00	5,557.32	7,503.60	5,538.37	54.85	54.00	-89.084	1,244.72	-1,902.53	1,185.23	1,076.92	108.31	10.943	
7,700.00	5,558.12	7,603.60	5,539.21	56.99	56.16	-89.086	1,314.25	-1,974.40	1,185.23	1,072.60	112.63	10.523	
7,800.00	5,558.92	7,703.60	5,540.05	59.15	58.34	-89.088	1,383.78	-2,046.27	1,185.23	1,068.25	116.98	10.132	
7,900.00	5,559.73	7,803.60	5,540.89	61.32	60.52	-89.089	1,453.30	-2,118.14	1,185.23	1,063.88	121.35	9.767	
8,000.00	5,560.53	7,903.60	5,541.73	63.50	62.71	-89.091	1,522.83	-2,190.02	1,185.23	1,059.49	125.74	9.426	
8,100.00	5,561.33	8,003.60	5,542.57	65.69	64.92	-89.093	1,592.36	-2,261.89	1,185.23	1,055.08	130.14	9.107	
8,200.00	5,562.13	8,103.60	5,543.42	67.89	67.13	-89.095	1,661.88	-2,333.76	1,185.23	1,050.66	134.56	8.808	
8,300.00	5,562.93	8,203.60	5,544.26	70.10	69.34	-89.097	1,731.41	-2,405.63	1,185.23	1,046.22	139.00	8.527	
8,400.00	5,563.73	8,303.60	5,545.10	72.31	71.57	-89.099	1,800.93	-2,477.50	1,185.22	1,041.77	143.45	8.262	
8,500.00	5,564.53	8,403.60	5,545.94	74.53	73.80	-89.101	1,870.46	-2,549.37	1,185.22	1,037.31	147.91	8.013	
8,600.00	5,565.34	8,503.60	5,546.78	76.76	76.03	-89.103	1,939.99	-2,621.24	1,185.22	1,032.84	152.38	7.778	
8,700.00	5,566.14	8,603.60	5,547.62	78.99	78.27	-89.105	2,009.51	-2,693.11	1,185.22	1,028.36	156.86	7.556	
8,800.00	5,566.94	8,703.60	5,548.46	81.22	80.52	-89.107	2,079.04	-2,764.98	1,185.22	1,023.87	161.35	7.345	
8,900.00	5,567.74	8,803.60	5,549.30	83.46	82.77	-89.109	2,148.57	-2,836.85	1,185.22	1,019.37	165.85	7.146	
9,000.00	5,568.54	8,903.60	5,550.15	85.71	85.02	-89.111	2,218.09	-2,908.72	1,185.22	1,014.86	170.36	6.957	
9,100.00	5,569.34	9,003.60	5,550.99	87.96	87.28	-89.113	2,287.62	-2,980.59	1,185.22	1,010.35	174.87	6.778	
9,200.00	5,570.14	9,103.60	5,551.83	90.21	89.54	-89.114	2,357.15	-3,052.46	1,185.22	1,005.82	179.39	6.607	
9,300.00	5,570.94	9,203.60	5,552.67	92.47	91.80	-89.116	2,426.67	-3,124.33	1,185.22	1,001.30	183.92	6.444	
9,400.00	5,571.75	9,303.60	5,553.51	94.73	94.06	-89.118	2,496.20	-3,196.20	1,185.21	996.77	188.45	6.289	
9,500.00	5,572.55	9,403.60	5,554.35	96.99	96.33	-89.120	2,565.72	-3,268.07	1,185.21	992.23	192.99	6.141	
9,600.00	5,573.35	9,503.60	5,555.19	99.25	98.60	-89.122	2,635.25	-3,339.94	1,185.21	987.69	197.53	6.000	
9,700.00	5,574.15	9,603.60	5,556.03	101.52	100.88	-89.124	2,704.78	-3,411.81	1,185.21	983.14	202.07	5.865	
9,800.00	5,574.95	9,703.60	5,556.87	103.79	103.15	-89.126	2,774.30	-3,483.69	1,185.21	978.59	206.62	5.736	
9,900.00	5,575.75	9,803.60	5,557.72	106.06	105.43	-89.128	2,843.83	-3,555.56	1,185.21	974.03	211.18	5.612	
10,000.00	5,576.55	9,903.60	5,558.56	108.34	107.71	-89.130	2,913.36	-3,627.43	1,185.21	969.47	215.73	5.494	
10,100.00	5,577.36	10,003.60	5,559.40	110.61	109.99	-89.132	2,982.88	-3,699.30	1,185.21	964.91	220.30	5.380	
10,200.00	5,578.16	10,103.60	5,560.24	112.89	112.27	-89.134	3,052.41	-3,771.17	1,185.21	960.35	224.86	5.271	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 041H - Orig hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:													
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,300.00	5,578.96	10,203.60	5,561.08	115.17	114.55	-89.136	3,121.93	-3,843.04	1,185.21	955.78	229.43	5.166	
10,400.00	5,579.76	10,303.60	5,561.92	117.45	116.84	-89.138	3,191.46	-3,914.91	1,185.20	951.21	234.00	5.065	
10,500.00	5,580.56	10,403.60	5,562.76	119.73	119.13	-89.140	3,260.99	-3,986.78	1,185.20	946.63	238.57	4.968	
10,600.00	5,581.36	10,503.60	5,563.60	122.02	121.41	-89.141	3,330.51	-4,058.65	1,185.20	942.06	243.15	4.874	
10,700.00	5,582.16	10,603.60	5,564.45	124.30	123.70	-89.143	3,400.04	-4,130.52	1,185.20	937.48	247.72	4.784	
10,800.00	5,582.97	10,703.60	5,565.29	126.59	125.99	-89.145	3,469.57	-4,202.39	1,185.20	932.90	252.31	4.697	
10,900.00	5,583.77	10,803.60	5,566.13	128.88	128.29	-89.147	3,539.09	-4,274.26	1,185.20	928.31	256.89	4.614	
11,000.00	5,584.57	10,903.60	5,566.97	131.17	130.58	-89.149	3,608.62	-4,346.13	1,185.20	923.73	261.47	4.533	
11,100.00	5,585.37	11,003.60	5,567.81	133.46	132.87	-89.151	3,678.15	-4,418.00	1,185.20	919.14	266.06	4.455	
11,200.00	5,586.17	11,103.60	5,568.65	135.75	135.17	-89.153	3,747.67	-4,489.87	1,185.20	914.55	270.65	4.379	
11,300.00	5,586.97	11,203.60	5,569.49	138.04	137.46	-89.155	3,817.20	-4,561.74	1,185.20	909.96	275.24	4.306	
11,400.00	5,587.77	11,303.60	5,570.33	140.33	139.76	-89.157	3,886.72	-4,633.61	1,185.19	905.37	279.83	4.235	
11,500.00	5,588.57	11,403.60	5,571.17	142.63	142.05	-89.159	3,956.25	-4,705.49	1,185.19	900.77	284.42	4.167	
11,600.00	5,589.38	11,503.60	5,572.02	144.92	144.35	-89.161	4,025.78	-4,777.36	1,185.19	896.18	289.02	4.101	
11,700.00	5,590.18	11,603.60	5,572.86	147.22	146.65	-89.163	4,095.30	-4,849.23	1,185.19	891.58	293.61	4.037	
11,800.00	5,590.98	11,703.60	5,573.70	149.52	148.95	-89.165	4,164.83	-4,921.10	1,185.19	886.98	298.21	3.974	
11,900.00	5,591.78	11,803.60	5,574.54	151.81	151.25	-89.166	4,234.36	-4,992.97	1,185.19	882.38	302.81	3.914	
12,000.00	5,592.58	11,903.60	5,575.38	154.11	153.55	-89.168	4,303.88	-5,064.84	1,185.19	877.78	307.41	3.855	
12,100.00	5,593.38	12,003.60	5,576.22	156.41	155.85	-89.170	4,373.41	-5,136.71	1,185.19	873.18	312.01	3.799	
12,200.00	5,594.18	12,103.60	5,577.06	158.71	158.15	-89.172	4,442.94	-5,208.58	1,185.19	868.57	316.61	3.743	
12,300.00	5,594.99	12,203.60	5,577.90	161.01	160.45	-89.174	4,512.46	-5,280.45	1,185.19	863.97	321.22	3.690	
12,400.00	5,595.79	12,303.60	5,578.75	163.31	162.76	-89.176	4,581.99	-5,352.32	1,185.19	859.36	325.82	3.638	
12,500.00	5,596.59	12,403.60	5,579.59	165.61	165.06	-89.178	4,651.51	-5,424.19	1,185.18	854.76	330.43	3.587	
12,600.00	5,597.39	12,503.60	5,580.43	167.91	167.36	-89.180	4,721.04	-5,496.06	1,185.18	850.15	335.03	3.538	
12,700.00	5,598.19	12,603.60	5,581.27	170.21	169.67	-89.182	4,790.57	-5,567.93	1,185.18	845.54	339.64	3.490	
12,800.00	5,598.99	12,703.60	5,582.11	172.52	171.97	-89.184	4,860.09	-5,639.80	1,185.18	840.93	344.25	3.443	
12,900.00	5,599.79	12,803.60	5,582.95	174.82	174.28	-89.186	4,929.62	-5,711.67	1,185.18	836.32	348.86	3.397	
13,000.00	5,600.59	12,903.60	5,583.79	177.12	176.58	-89.188	4,999.15	-5,783.54	1,185.18	831.71	353.47	3.353	
13,100.00	5,601.40	13,003.60	5,584.63	179.43	178.89	-89.190	5,068.67	-5,855.41	1,185.18	827.10	358.08	3.310	
13,200.00	5,602.20	13,103.60	5,585.47	181.73	181.19	-89.191	5,138.20	-5,927.28	1,185.18	822.49	362.69	3.268	
13,300.00	5,603.00	13,203.60	5,586.32	184.03	183.50	-89.193	5,207.73	-5,999.16	1,185.18	817.87	367.30	3.227	
13,400.00	5,603.80	13,303.60	5,587.16	186.34	185.81	-89.195	5,277.25	-6,071.03	1,185.18	813.26	371.92	3.187	
13,500.00	5,604.60	13,403.60	5,588.00	188.65	188.12	-89.197	5,346.78	-6,142.90	1,185.18	808.65	376.53	3.148	
13,600.00	5,605.40	13,503.60	5,588.84	190.95	190.42	-89.199	5,416.30	-6,214.77	1,185.17	804.03	381.14	3.110	
13,700.00	5,606.20	13,603.60	5,589.68	193.26	192.73	-89.201	5,485.83	-6,286.64	1,185.17	799.41	385.76	3.072	
13,800.00	5,607.01	13,703.60	5,590.52	195.56	195.04	-89.203	5,555.36	-6,358.51	1,185.17	794.80	390.38	3.036	
13,900.00	5,607.81	13,803.60	5,591.36	197.87	197.35	-89.205	5,624.88	-6,430.38	1,185.17	790.18	394.99	3.001	
14,000.00	5,608.61	13,903.60	5,592.20	200.18	199.66	-89.207	5,694.41	-6,502.25	1,185.17	785.56	399.61	2.966	
14,100.00	5,609.41	14,003.60	5,593.05	202.49	201.96	-89.209	5,763.94	-6,574.12	1,185.17	780.94	404.22	2.932	
14,200.00	5,610.21	14,103.60	5,593.89	204.79	204.27	-89.211	5,833.46	-6,645.99	1,185.17	776.33	408.84	2.899	
14,300.00	5,611.01	14,203.60	5,594.73	207.10	206.58	-89.213	5,902.99	-6,717.86	1,185.17	771.71	413.46	2.866	
14,400.00	5,611.81	14,303.60	5,595.57	209.41	208.89	-89.215	5,972.51	-6,789.73	1,185.17	767.09	418.08	2.835	
14,500.00	5,612.61	14,403.60	5,596.41	211.72	211.20	-89.217	6,042.04	-6,861.60	1,185.17	762.47	422.70	2.804	
14,600.00	5,613.42	14,503.60	5,597.25	214.03	213.51	-89.218	6,111.57	-6,933.47	1,185.17	757.85	427.32	2.773	
14,700.00	5,614.22	14,603.60	5,598.09	216.34	215.82	-89.220	6,181.09	-7,005.34	1,185.16	753.23	431.94	2.744	
14,800.00	5,615.02	14,703.60	5,598.93	218.65	218.13	-89.222	6,250.62	-7,077.21	1,185.16	748.60	436.56	2.715	
14,900.00	5,615.82	14,803.60	5,599.77	220.96	220.45	-89.224	6,320.15	-7,149.08	1,185.16	743.98	441.18	2.686	
15,000.00	5,616.62	14,903.60	5,600.62	223.27	222.76	-89.226	6,389.67	-7,220.96	1,185.16	739.36	445.80	2.658	
15,100.00	5,617.42	15,003.60	5,601.46	225.58	225.07	-89.228	6,459.20	-7,292.83	1,185.16	734.74	450.42	2.631	
15,200.00	5,618.22	15,103.60	5,602.30	227.89	227.38	-89.230	6,528.73	-7,364.70	1,185.16	730.11	455.05	2.604	
15,300.00	5,619.03	15,203.60	5,603.14	230.20	229.69	-89.232	6,598.25	-7,436.57	1,185.16	725.49	459.67	2.578	
15,400.00	5,619.83	15,303.60	5,603.98	232.51	232.00	-89.234	6,667.78	-7,508.44	1,185.16	720.87	464.29	2.553	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 041H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Rule Assigned:												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
15,500.00	5,620.63	15,403.60	5,604.82	234.82	234.32	-89.236	6,737.30	-7,580.31	1,185.16	716.24	468.91	2.527		
15,600.00	5,621.43	15,503.60	5,605.66	237.13	236.63	-89.238	6,806.83	-7,652.18	1,185.16	711.62	473.54	2.503		
15,700.00	5,622.23	15,603.60	5,606.50	239.44	238.94	-89.240	6,876.36	-7,724.05	1,185.16	706.99	478.16	2.479		
15,800.00	5,623.03	15,703.60	5,607.35	241.75	241.25	-89.242	6,945.88	-7,795.92	1,185.15	702.37	482.78	2.455		
15,900.00	5,623.83	15,803.60	5,608.19	244.06	243.56	-89.243	7,015.41	-7,867.79	1,185.15	697.74	487.41	2.432		
16,000.00	5,624.64	15,903.60	5,609.03	246.38	245.88	-89.245	7,084.94	-7,939.66	1,185.15	693.12	492.03	2.409		
16,100.00	5,625.44	16,003.60	5,609.87	248.69	248.19	-89.247	7,154.46	-8,011.53	1,185.15	688.49	496.66	2.386		
16,200.00	5,626.24	16,103.60	5,610.71	251.00	250.50	-89.249	7,223.99	-8,083.40	1,185.15	683.87	501.28	2.364		
16,300.00	5,627.04	16,203.60	5,611.55	253.31	252.82	-89.251	7,293.52	-8,155.27	1,185.15	679.24	505.91	2.343		
16,400.00	5,627.84	16,303.60	5,612.39	255.62	255.13	-89.253	7,363.04	-8,227.14	1,185.15	674.61	510.54	2.321		
16,500.00	5,628.64	16,403.60	5,613.23	257.94	257.44	-89.255	7,432.57	-8,299.01	1,185.15	669.99	515.16	2.301		
16,600.00	5,629.44	16,503.60	5,614.07	260.25	259.76	-89.257	7,502.09	-8,370.88	1,185.15	665.36	519.79	2.280		
16,700.00	5,630.24	16,603.60	5,614.92	262.56	262.07	-89.259	7,571.62	-8,442.75	1,185.15	660.73	524.41	2.260		
16,800.00	5,631.05	16,703.60	5,615.76	264.88	264.39	-89.261	7,641.15	-8,514.63	1,185.15	656.10	529.04	2.240		
16,900.00	5,631.85	16,803.60	5,616.60	267.19	266.70	-89.263	7,710.67	-8,586.50	1,185.14	651.48	533.67	2.221		
17,000.00	5,632.65	16,903.60	5,617.44	269.50	269.01	-89.265	7,780.20	-8,658.37	1,185.14	646.85	538.30	2.202		
17,100.00	5,633.45	17,003.60	5,618.28	271.81	271.33	-89.267	7,849.73	-8,730.24	1,185.14	642.22	542.92	2.183		
17,200.00	5,634.25	17,103.60	5,619.12	274.13	273.64	-89.269	7,919.25	-8,802.11	1,185.14	637.59	547.55	2.164		
17,300.00	5,635.05	17,203.60	5,619.96	276.44	275.96	-89.270	7,988.78	-8,873.98	1,185.14	632.96	552.18	2.146		
17,400.00	5,635.85	17,303.60	5,620.80	278.76	278.27	-89.272	8,058.31	-8,945.85	1,185.14	628.33	556.81	2.128		
17,500.00	5,636.66	17,403.60	5,621.65	281.07	280.59	-89.274	8,127.83	-9,017.72	1,185.14	623.70	561.44	2.111		
17,600.00	5,637.46	17,503.60	5,622.49	283.38	282.90	-89.276	8,197.36	-9,089.59	1,185.14	619.07	566.06	2.094		
17,700.00	5,638.26	17,603.60	5,623.33	285.70	285.22	-89.278	8,266.88	-9,161.46	1,185.14	614.44	570.69	2.077		
17,800.00	5,639.06	17,703.60	5,624.17	288.01	287.53	-89.280	8,336.41	-9,233.33	1,185.14	609.81	575.32	2.060		
17,900.00	5,639.86	17,803.60	5,625.01	290.33	289.85	-89.282	8,405.94	-9,305.20	1,185.14	605.18	579.95	2.044		
18,000.00	5,640.66	17,903.60	5,625.85	292.64	292.16	-89.284	8,475.46	-9,377.07	1,185.13	600.55	584.58	2.027		
18,100.00	5,641.46	18,003.60	5,626.69	294.96	294.48	-89.286	8,544.99	-9,448.94	1,185.13	595.92	589.21	2.011		
18,200.00	5,642.26	18,103.60	5,627.53	297.27	296.79	-89.288	8,614.52	-9,520.81	1,185.13	591.29	593.84	1.996 Level 3<2.00		
18,300.00	5,643.07	18,203.60	5,628.37	299.58	299.11	-89.290	8,684.04	-9,592.68	1,185.13	586.66	598.47	1.980 Level 3<2.00		
18,400.00	5,643.87	18,303.60	5,629.22	301.90	301.42	-89.292	8,753.57	-9,664.55	1,185.13	582.03	603.10	1.965 Level 3<2.00		
18,500.00	5,644.67	18,403.60	5,630.06	304.21	303.74	-89.294	8,823.10	-9,736.42	1,185.13	577.40	607.73	1.950 Level 3<2.00		
18,600.00	5,645.47	18,503.60	5,630.90	306.53	306.05	-89.295	8,892.62	-9,808.30	1,185.13	572.77	612.36	1.935 Level 3<2.00		
18,700.00	5,646.27	18,603.60	5,631.74	308.84	308.37	-89.297	8,962.15	-9,880.17	1,185.13	568.14	616.99	1.921 Level 3<2.00		
18,800.00	5,647.07	18,703.60	5,632.58	311.16	310.68	-89.299	9,031.67	-9,952.04	1,185.13	563.51	621.62	1.907 Level 3<2.00		
18,900.00	5,647.87	18,803.60	5,633.42	313.47	313.00	-89.301	9,101.20	-10,023.91	1,185.13	558.88	626.25	1.892 Level 3<2.00		
19,000.00	5,648.68	18,903.60	5,634.26	315.79	315.32	-89.303	9,170.73	-10,095.78	1,185.13	554.25	630.88	1.879 Level 3<2.00		
19,100.00	5,649.48	19,003.60	5,635.10	318.10	317.63	-89.305	9,240.25	-10,167.65	1,185.13	549.61	635.51	1.865 Level 3<2.00		
19,200.00	5,650.28	19,103.60	5,635.94	320.42	319.95	-89.307	9,309.78	-10,239.52	1,185.12	544.98	640.14	1.851 Level 3<2.00		
19,300.00	5,651.08	19,203.60	5,636.79	322.74	322.26	-89.309	9,379.31	-10,311.39	1,185.12	540.35	644.77	1.838 Level 3<2.00		
19,400.00	5,651.88	19,303.60	5,637.63	325.05	324.58	-89.311	9,448.83	-10,383.26	1,185.12	535.72	649.40	1.825 Level 3<2.00		
19,500.00	5,652.68	19,403.60	5,638.47	327.37	326.90	-89.313	9,518.36	-10,455.13	1,185.12	531.09	654.04	1.812 Level 3<2.00		
19,600.00	5,653.48	19,503.60	5,639.31	329.68	329.21	-89.315	9,587.88	-10,527.00	1,185.12	526.45	658.67	1.799 Level 3<2.00		
19,700.00	5,654.28	19,603.60	5,640.15	332.00	331.53	-89.317	9,657.41	-10,598.87	1,185.12	521.82	663.30	1.787 Level 3<2.00		
19,800.00	5,655.09	19,703.60	5,640.99	334.31	333.85	-89.319	9,726.94	-10,670.74	1,185.12	517.19	667.93	1.774 Level 3<2.00		
19,900.00	5,655.89	19,803.60	5,641.83	336.63	336.16	-89.320	9,796.46	-10,742.61	1,185.12	512.56	672.56	1.762 Level 3<2.00		
20,000.00	5,656.69	19,903.60	5,642.67	338.95	338.48	-89.322	9,865.99	-10,814.48	1,185.12	507.92	677.19	1.750 Level 3<2.00		
20,100.00	5,657.49	20,003.60	5,643.52	341.26	340.80	-89.324	9,935.52	-10,886.35	1,185.12	503.29	681.83	1.738 Level 3<2.00		
20,200.00	5,658.29	20,103.60	5,644.36	343.58	343.11	-89.326	10,005.04	-10,958.22	1,185.12	498.66	686.46	1.726 Level 3<2.00		
20,288.42	5,659.00	20,192.02	5,645.10	345.63	345.16	-89.328	10,066.52	-11,021.77	1,185.12	494.56	690.55	1.716 Level 3<2.00, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 042H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-152.845	-124.42	-63.82	139.84					
100.00	100.00	100.00	100.00	0.27	0.27	-152.845	-124.42	-63.82	139.84	139.29	0.55	254.960		
200.00	200.00	200.00	200.00	0.63	0.63	-152.845	-124.42	-63.82	139.84	138.57	1.27	110.507		
300.00	300.00	300.00	300.00	0.99	0.99	-152.845	-124.42	-63.82	139.84	137.85	1.98	70.541		
400.00	400.00	400.00	400.00	1.35	1.35	-152.845	-124.42	-63.82	139.84	137.14	2.70	51.805		
500.00	500.00	500.00	500.00	1.71	1.71	-152.845	-124.42	-63.82	139.84	136.42	3.42	40.933 CC, ES		
600.00	599.95	593.49	593.45	2.07	2.03	164.336	-125.86	-65.60	144.60	140.50	4.10	35.273		
700.00	699.63	685.57	685.28	2.43	2.35	165.909	-130.09	-70.82	158.91	154.13	4.78	33.247 SF		
800.00	798.77	774.93	773.99	2.80	2.67	167.951	-136.85	-79.17	182.75	177.30	5.45	33.521		
900.00	897.10	860.44	858.30	3.19	3.00	170.041	-145.76	-90.18	215.89	209.78	6.11	35.315		
1,000.00	995.08	942.42	938.47	3.61	3.34	171.980	-156.52	-103.47	254.93	248.22	6.71	37.994		
1,100.00	1,093.07	1,021.28	1,014.84	4.05	3.69	173.565	-168.91	-118.77	297.92	290.64	7.28	40.919		
1,200.00	1,191.06	1,100.00	1,090.18	4.49	4.08	174.918	-183.25	-136.47	344.64	336.79	7.85	43.904		
1,300.00	1,289.04	1,169.41	1,155.79	4.94	4.47	175.951	-197.50	-154.07	394.80	386.45	8.35	47.270		
1,400.00	1,387.03	1,238.65	1,220.37	5.39	4.88	176.854	-213.19	-173.45	448.20	439.36	8.85	50.665		
1,500.00	1,485.02	1,300.00	1,276.81	5.85	5.26	177.564	-228.33	-192.14	504.64	495.37	9.28	54.408		
1,600.00	1,583.01	1,367.65	1,338.11	6.32	5.74	178.263	-246.33	-214.38	563.82	554.05	9.78	57.671		
1,700.00	1,680.99	1,427.57	1,391.54	6.78	6.18	178.818	-263.41	-235.47	625.62	615.41	10.21	61.285		
1,800.00	1,778.98	1,484.58	1,441.54	7.25	6.63	179.296	-280.62	-256.73	689.82	679.20	10.62	64.965		
1,900.00	1,876.97	1,538.77	1,488.31	7.72	7.09	179.713	-297.85	-278.01	756.25	745.24	11.01	68.676		
2,000.00	1,974.95	1,600.00	1,540.18	8.19	7.63	-179.858	-318.32	-303.28	824.82	813.33	11.49	71.802		
2,100.00	2,072.94	1,643.85	1,576.71	8.66	8.04	-179.574	-333.58	-322.13	895.09	883.30	11.79	75.921		
2,200.00	2,170.93	1,714.17	1,635.09	9.13	8.72	-179.170	-358.25	-352.59	966.04	953.65	12.39	77.973		
2,300.00	2,268.91	1,784.48	1,693.47	9.60	9.40	-178.821	-382.92	-383.06	1,037.01	1,024.02	13.00	79.798		
2,400.00	2,366.90	1,854.80	1,751.85	10.07	10.10	-178.516	-407.58	-413.52	1,108.00	1,094.39	13.61	81.424		
2,500.00	2,464.89	1,925.12	1,810.23	10.55	10.80	-178.248	-432.25	-443.99	1,179.00	1,164.78	14.22	82.889		
2,600.00	2,562.88	1,995.44	1,868.61	11.02	11.51	-178.010	-456.92	-474.45	1,250.01	1,235.17	14.84	84.208		
2,700.00	2,660.86	2,065.76	1,926.99	11.50	12.23	-177.798	-481.59	-504.92	1,321.03	1,305.56	15.47	85.393		
2,800.00	2,758.85	2,136.08	1,985.37	11.97	12.95	-177.608	-506.25	-535.38	1,392.06	1,375.96	16.10	86.472		
2,900.00	2,856.84	2,206.40	2,043.75	12.45	13.67	-177.436	-530.92	-565.84	1,463.10	1,446.37	16.73	87.457		
3,000.00	2,954.82	2,276.72	2,102.13	12.93	14.40	-177.280	-555.59	-596.31	1,534.14	1,516.78	17.36	88.352		
3,100.00	3,052.81	2,347.03	2,160.50	13.40	15.13	-177.137	-580.26	-626.77	1,605.19	1,587.19	18.00	89.173		
3,200.00	3,150.80	2,417.35	2,218.88	13.88	15.86	-177.007	-604.92	-657.24	1,676.24	1,657.60	18.64	89.928		
3,300.00	3,248.79	2,487.67	2,277.26	14.36	16.59	-176.887	-629.59	-687.70	1,747.30	1,728.02	19.28	90.623		
3,400.00	3,346.77	2,557.99	2,335.64	14.83	17.32	-176.777	-654.26	-718.17	1,818.36	1,798.43	19.92	91.263		
3,500.00	3,444.76	2,628.31	2,394.02	15.31	18.06	-176.675	-678.93	-748.63	1,889.42	1,868.85	20.57	91.857		
3,600.00	3,542.75	2,698.63	2,452.40	15.79	18.80	-176.580	-703.60	-779.10	1,960.48	1,939.27	21.22	92.408		
3,700.00	3,640.73	2,768.95	2,510.78	16.27	19.54	-176.492	-728.26	-809.56	2,031.55	2,009.69	21.86	92.917		
3,800.00	3,738.72	2,839.27	2,569.16	16.74	20.28	-176.410	-752.93	-840.02	2,102.62	2,080.11	22.51	93.393		
3,900.00	3,836.71	2,909.58	2,627.54	17.22	21.02	-176.333	-777.60	-870.49	2,173.69	2,150.53	23.16	93.836		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 043H - Orig hole - rev0													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-152.838	-106.70	-54.75	119.92				
100.00	100.00	100.00	100.00	0.27	0.27	-152.838	-106.70	-54.75	119.92	119.38	0.55	218.656	
200.00	200.00	200.00	200.00	0.63	0.63	-152.838	-106.70	-54.75	119.92	118.66	1.27	94.772	
300.00	300.00	300.00	300.00	0.99	0.99	-152.838	-106.70	-54.75	119.92	117.94	1.98	60.496	
400.00	400.00	400.00	400.00	1.35	1.35	-152.838	-106.70	-54.75	119.92	117.23	2.70	44.428	
500.00	500.00	500.00	500.00	1.71	1.71	-152.838	-106.70	-54.75	119.92	116.51	3.42	35.104 CC, ES	
600.00	599.95	599.95	599.95	2.07	2.07	164.065	-106.70	-54.75	122.44	118.31	4.13	29.631	
700.00	699.63	699.63	699.63	2.43	2.42	164.955	-106.70	-54.75	130.00	125.15	4.85	26.792	
800.00	798.77	792.46	792.43	2.80	2.74	166.519	-107.97	-56.59	144.81	139.26	5.55	26.115 SF	
900.00	897.10	882.51	882.23	3.19	3.05	168.705	-111.64	-61.92	169.00	162.77	6.22	27.149	
1,000.00	995.08	969.69	968.80	3.61	3.36	170.960	-117.49	-70.40	199.33	192.47	6.85	29.078	
1,100.00	1,093.07	1,054.17	1,052.14	4.05	3.67	172.936	-125.28	-81.71	233.92	226.46	7.46	31.355	
1,200.00	1,191.06	1,135.74	1,131.97	4.49	4.00	174.637	-134.79	-95.50	272.60	264.56	8.04	33.904	
1,300.00	1,289.04	1,214.29	1,208.09	4.94	4.34	176.089	-145.76	-111.42	315.15	306.56	8.59	36.675	
1,400.00	1,387.03	1,289.71	1,280.39	5.39	4.69	177.327	-157.96	-129.12	361.37	352.25	9.12	39.625	
1,500.00	1,485.02	1,361.98	1,348.80	5.85	5.07	178.384	-171.15	-148.27	411.03	401.41	9.62	42.746	
1,600.00	1,583.01	1,439.47	1,421.31	6.32	5.50	179.379	-186.66	-170.77	463.51	453.33	10.18	45.522	
1,700.00	1,680.99	1,524.07	1,500.36	6.78	5.99	-179.737	-203.77	-195.59	516.44	505.62	10.83	47.691	
1,800.00	1,778.98	1,608.66	1,579.40	7.25	6.51	-179.018	-220.88	-220.41	569.45	557.97	11.48	49.597	
1,900.00	1,876.97	1,693.26	1,658.44	7.72	7.04	-178.420	-237.98	-245.23	622.51	610.37	12.14	51.275	
2,000.00	1,974.95	1,777.86	1,737.49	8.19	7.58	-177.916	-255.09	-270.06	675.62	662.81	12.81	52.759	
2,100.00	2,072.94	1,862.45	1,816.53	8.66	8.13	-177.485	-272.20	-294.88	728.75	715.28	13.47	54.083	
2,200.00	2,170.93	1,947.05	1,895.58	9.13	8.68	-177.113	-289.30	-319.70	781.91	767.76	14.15	55.269	
2,300.00	2,268.91	2,031.65	1,974.62	9.60	9.25	-176.788	-306.41	-344.52	835.09	820.27	14.82	56.337	
2,400.00	2,366.90	2,116.25	2,053.66	10.07	9.81	-176.501	-323.52	-369.34	888.29	872.79	15.50	57.302	
2,500.00	2,464.89	2,200.84	2,132.71	10.55	10.38	-176.247	-340.62	-394.16	941.50	925.32	16.18	58.178	
2,600.00	2,562.88	2,285.44	2,211.75	11.02	10.96	-176.021	-357.73	-418.98	994.73	977.86	16.87	58.974	
2,700.00	2,660.86	2,370.04	2,290.80	11.50	11.53	-175.817	-374.84	-443.80	1,047.96	1,030.41	17.55	59.703	
2,800.00	2,758.85	2,454.63	2,369.84	11.97	12.11	-175.633	-391.94	-468.62	1,101.20	1,082.96	18.24	60.372	
2,900.00	2,856.84	2,539.23	2,448.88	12.45	12.70	-175.466	-409.05	-493.44	1,154.45	1,135.52	18.93	60.987	
3,000.00	2,954.82	2,623.83	2,527.93	12.93	13.28	-175.313	-426.15	-518.26	1,207.71	1,188.09	19.62	61.555	
3,100.00	3,052.81	2,708.43	2,606.97	13.40	13.86	-175.174	-443.26	-543.08	1,260.97	1,240.66	20.31	62.081	
3,200.00	3,150.80	2,793.02	2,686.02	13.88	14.45	-175.045	-460.37	-567.91	1,314.24	1,293.23	21.00	62.568	
3,300.00	3,248.79	2,877.62	2,765.06	14.36	15.04	-174.927	-477.47	-592.73	1,367.51	1,345.81	21.70	63.021	
3,400.00	3,346.77	2,962.22	2,844.11	14.83	15.63	-174.818	-494.58	-617.55	1,420.79	1,398.39	22.39	63.443	
3,500.00	3,444.76	3,046.81	2,923.15	15.31	16.22	-174.716	-511.69	-642.37	1,474.06	1,450.97	23.09	63.837	
3,600.00	3,542.75	3,131.41	3,002.19	15.79	16.81	-174.622	-528.79	-667.19	1,527.35	1,503.56	23.79	64.206	
3,700.00	3,640.73	3,216.01	3,081.24	16.27	17.40	-174.534	-545.90	-692.01	1,580.63	1,556.14	24.49	64.552	
3,800.00	3,738.72	3,300.61	3,160.28	16.74	17.99	-174.451	-563.01	-716.83	1,633.92	1,608.73	25.18	64.877	
3,900.00	3,836.71	3,385.20	3,239.33	17.22	18.59	-174.374	-580.11	-741.65	1,687.21	1,661.32	25.88	65.182	
4,000.00	3,934.69	3,469.80	3,318.37	17.70	19.18	-174.302	-597.22	-766.47	1,740.50	1,713.91	26.58	65.469	
4,100.00	4,032.68	3,554.40	3,397.41	18.18	19.77	-174.234	-614.33	-791.29	1,793.79	1,766.51	27.29	65.740	
4,200.00	4,130.67	3,638.99	3,476.46	18.66	20.37	-174.170	-631.43	-816.11	1,847.09	1,819.10	27.99	65.996	
4,300.00	4,228.66	3,723.59	3,555.50	19.13	20.96	-174.109	-648.54	-840.93	1,900.38	1,871.69	28.69	66.238	
4,400.00	4,326.64	3,808.19	3,634.55	19.61	21.56	-174.052	-665.65	-865.76	1,953.68	1,924.29	29.39	66.467	
4,500.00	4,424.70	3,892.96	3,713.76	20.09	22.16	-174.066	-682.79	-890.63	2,006.69	1,976.60	30.10	66.677	
4,600.00	4,523.47	3,979.84	3,794.93	20.52	22.77	-174.174	-700.36	-916.12	2,056.15	2,025.34	30.80	66.752	
4,700.00	4,622.92	4,069.16	3,878.39	20.90	23.40	-174.246	-718.42	-942.32	2,101.01	2,069.50	31.52	66.666	
4,800.00	4,722.78	4,160.68	3,963.90	21.23	24.05	-174.285	-736.92	-969.18	2,141.16	2,108.93	32.23	66.428	
4,900.00	4,822.78	4,253.90	4,051.00	21.52	24.70	-130.819	-755.77	-996.53	2,177.17	2,144.22	32.95	66.075	
5,000.00	4,922.78	4,347.34	4,138.31	21.80	25.36	-130.719	-774.67	-1,023.94	2,212.62	2,178.94	33.67	65.708	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 044H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-152.828	-88.98	-45.67	100.01					
100.00	100.00	100.00	100.00	0.27	0.27	-152.828	-88.98	-45.67	100.01	99.47	0.55	182.353		
200.00	200.00	200.00	200.00	0.63	0.63	-152.828	-88.98	-45.67	100.01	98.75	1.27	79.037		
300.00	300.00	300.00	300.00	0.99	0.99	-152.828	-88.98	-45.67	100.01	98.03	1.98	50.452		
400.00	400.00	400.00	400.00	1.35	1.35	-152.828	-88.98	-45.67	100.01	97.31	2.70	37.052		
500.00	500.00	500.00	500.00	1.71	1.71	-152.828	-88.98	-45.67	100.01	96.60	3.42	29.276 CC, ES		
600.00	599.95	599.95	599.95	2.07	2.07	164.141	-88.98	-45.67	102.53	98.40	4.13	24.812		
700.00	699.63	699.63	699.63	2.43	2.42	165.198	-88.98	-45.67	110.10	105.24	4.85	22.690		
800.00	798.77	798.77	798.77	2.80	2.78	166.666	-88.98	-45.67	122.76	117.19	5.57	22.022 SF		
900.00	897.10	892.47	892.43	3.19	3.11	168.892	-89.37	-47.88	142.09	135.80	6.28	22.618		
1,000.00	995.08	983.88	983.59	3.61	3.42	171.874	-90.53	-54.38	166.72	159.77	6.95	24.004		
1,100.00	1,093.07	1,073.03	1,072.10	4.05	3.74	174.940	-92.39	-64.85	195.10	187.51	7.59	25.698		
1,200.00	1,191.06	1,160.15	1,158.02	4.49	4.07	177.893	-94.91	-79.00	227.34	219.12	8.22	27.659		
1,300.00	1,289.04	1,253.49	1,249.76	4.94	4.44	-179.446	-97.93	-95.94	261.58	252.67	8.90	29.382		
1,400.00	1,387.03	1,346.84	1,341.51	5.39	4.82	-177.397	-100.95	-112.89	296.20	286.61	9.59	30.890		
1,500.00	1,485.02	1,440.18	1,433.25	5.85	5.21	-175.775	-103.97	-129.84	331.08	320.80	10.28	32.192		
1,600.00	1,583.01	1,533.53	1,524.99	6.32	5.61	-174.462	-106.99	-146.79	366.16	355.17	10.99	33.332		
1,700.00	1,680.99	1,626.87	1,616.74	6.78	6.01	-173.377	-110.01	-163.74	401.37	389.68	11.69	34.336		
1,800.00	1,778.98	1,720.22	1,708.48	7.25	6.42	-172.466	-113.03	-180.69	436.70	424.30	12.40	35.224		
1,900.00	1,876.97	1,813.57	1,800.23	7.72	6.83	-171.692	-116.04	-197.64	472.10	458.99	13.11	36.014		
2,000.00	1,974.95	1,906.91	1,891.97	8.19	7.25	-171.025	-119.06	-214.59	507.57	493.75	13.82	36.721		
2,100.00	2,072.94	2,000.26	1,983.72	8.66	7.67	-170.445	-122.08	-231.54	543.09	528.56	14.54	37.356		
2,200.00	2,170.93	2,093.60	2,075.46	9.13	8.09	-169.936	-125.10	-248.49	578.66	563.40	15.26	37.930		
2,300.00	2,268.91	2,186.95	2,167.21	9.60	8.51	-169.487	-128.12	-265.43	614.26	598.28	15.98	38.450		
2,400.00	2,366.90	2,280.29	2,258.95	10.07	8.94	-169.086	-131.14	-282.38	649.89	633.19	16.70	38.924		
2,500.00	2,464.89	2,373.64	2,350.69	10.55	9.37	-168.727	-134.16	-299.33	685.54	668.13	17.42	39.358		
2,600.00	2,562.88	2,466.99	2,442.44	11.02	9.80	-168.403	-137.18	-316.28	721.22	703.08	18.14	39.756		
2,700.00	2,660.86	2,560.33	2,534.18	11.50	10.23	-168.110	-140.20	-333.23	756.91	738.05	18.87	40.122		
2,800.00	2,758.85	2,653.68	2,625.93	11.97	10.66	-167.843	-143.22	-350.18	792.62	773.03	19.59	40.459		
2,900.00	2,856.84	2,747.02	2,717.67	12.45	11.09	-167.599	-146.24	-367.13	828.35	808.03	20.32	40.772		
3,000.00	2,954.82	2,840.37	2,809.42	12.93	11.52	-167.375	-149.25	-384.08	864.08	843.04	21.04	41.063		
3,100.00	3,052.81	2,933.71	2,901.16	13.40	11.95	-167.169	-152.27	-401.03	899.83	878.06	21.77	41.333		
3,200.00	3,150.80	3,027.06	2,992.90	13.88	12.39	-166.979	-155.29	-417.98	935.59	913.09	22.50	41.585		
3,300.00	3,248.79	3,120.41	3,084.65	14.36	12.82	-166.803	-158.31	-434.93	971.35	948.12	23.23	41.820		
3,400.00	3,346.77	3,213.75	3,176.39	14.83	13.26	-166.639	-161.33	-451.87	1,007.12	983.17	23.96	42.041		
3,500.00	3,444.76	3,307.10	3,268.14	15.31	13.69	-166.487	-164.35	-468.82	1,042.90	1,018.22	24.69	42.248		
3,600.00	3,542.75	3,400.44	3,359.88	15.79	14.13	-166.344	-167.37	-485.77	1,078.69	1,053.27	25.42	42.442		
3,700.00	3,640.73	3,498.35	3,456.11	16.27	14.58	-166.205	-170.53	-503.53	1,114.47	1,088.29	26.18	42.567		
3,800.00	3,738.72	3,707.31	3,663.31	16.74	15.45	-166.185	-175.15	-529.44	1,145.17	1,117.50	27.67	41.392		
3,900.00	3,836.71	3,880.83	3,836.71	17.22	16.01	-166.504	-176.01	-534.26	1,166.61	1,137.89	28.73	40.611		
4,000.00	3,934.69	3,978.82	3,934.69	17.70	16.30	-166.728	-176.01	-534.26	1,186.05	1,156.62	29.43	40.301		
4,100.00	4,032.68	4,076.80	4,032.68	18.18	16.59	-166.946	-176.01	-534.26	1,205.51	1,175.38	30.14	40.003		
4,200.00	4,130.67	4,174.79	4,130.67	18.66	16.89	-167.157	-176.01	-534.26	1,224.99	1,194.15	30.84	39.719		
4,300.00	4,228.66	4,272.78	4,228.66	19.13	17.18	-167.361	-176.01	-534.26	1,244.48	1,212.93	31.55	39.447		
4,400.00	4,326.64	4,370.77	4,326.64	19.61	17.48	-167.559	-176.01	-534.26	1,263.98	1,231.73	32.26	39.186		
4,500.00	4,424.70	4,468.82	4,424.70	20.09	17.78	-167.791	-176.01	-534.26	1,283.18	1,250.21	32.96	38.927		
4,600.00	4,523.47	4,567.59	4,523.47	20.52	18.09	-168.032	-176.01	-534.26	1,298.37	1,264.71	33.66	38.567		
4,700.00	4,622.92	4,667.05	4,622.92	20.90	18.40	-168.188	-176.01	-534.26	1,308.49	1,274.13	34.36	38.085		
4,800.00	4,722.78	4,766.90	4,722.78	21.23	18.71	-168.264	-176.01	-534.26	1,313.50	1,278.46	35.04	37.487		
4,900.00	4,822.78	4,866.90	4,822.78	21.52	19.03	-124.854	-176.01	-534.26	1,314.09	1,278.38	35.71	36.802		
5,000.00	4,922.78	4,966.90	4,922.78	21.80	19.34	-124.854	-176.01	-534.26	1,314.09	1,277.71	36.37	36.127		
5,100.00	5,022.70	5,138.68	5,092.88	22.09	19.80	-76.553	-189.04	-520.09	1,311.35	1,274.13	37.22	35.232		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 044H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program:		0-MWD										Offset Well Error:	0.00 ft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,120.99	5,286.66	5,229.43	22.36	20.08	-81.021	-226.93	-478.88	1,300.51	1,262.63	37.88	34.329		
5,300.00	5,214.71	5,371.66	5,299.87	22.61	20.20	-85.293	-259.03	-443.98	1,288.05	1,249.57	38.47	33.478		
5,400.00	5,301.02	5,411.49	5,330.30	22.84	20.25	-87.816	-276.42	-425.06	1,279.52	1,240.53	38.98	32.822		
5,477.19	5,360.89	5,422.61	5,338.46	23.00	20.26	-88.523	-281.53	-419.51	1,277.37	1,238.06	39.31	32.494		
5,500.00	5,377.28	5,423.57	5,339.16	23.05	20.26	-88.547	-281.98	-419.02	1,277.56	1,238.18	39.38	32.438		
5,600.00	5,441.19	5,418.67	5,335.58	23.26	20.25	-87.794	-279.71	-421.49	1,282.89	1,243.18	39.71	32.306		
5,700.00	5,490.80	5,400.00	5,321.70	23.50	20.23	-85.751	-271.26	-430.68	1,295.12	1,255.10	40.02	32.360		
5,800.00	5,524.60	5,380.14	5,306.50	23.86	20.21	-83.098	-262.61	-440.08	1,313.17	1,272.72	40.45	32.463		
5,900.00	5,541.57	5,350.00	5,282.60	24.48	20.17	-79.665	-250.18	-453.59	1,335.67	1,294.72	40.95	32.618		
6,000.00	5,544.50	5,322.59	5,260.05	25.44	20.13	-77.368	-239.63	-465.07	1,366.00	1,324.43	41.57	32.860		
6,100.00	5,545.30	5,300.00	5,240.93	26.65	20.10	-76.536	-231.50	-473.92	1,402.86	1,360.60	42.26	33.196		
6,200.00	5,546.10	5,273.39	5,217.82	28.03	20.06	-75.540	-222.57	-483.62	1,444.84	1,401.92	42.92	33.664		
6,300.00	5,546.90	5,250.00	5,197.02	29.56	20.02	-74.651	-215.34	-491.49	1,491.70	1,448.11	43.59	34.225		
6,400.00	5,547.71	5,250.00	5,197.02	31.18	20.02	-74.651	-215.34	-491.49	1,543.23	1,498.85	44.38	34.769		
6,500.00	5,548.51	5,220.94	5,170.59	32.90	19.97	-73.534	-207.16	-500.39	1,598.65	1,553.73	44.92	35.585		
6,600.00	5,549.31	5,200.00	5,151.19	34.69	19.93	-72.722	-201.83	-506.18	1,658.12	1,612.65	45.47	36.466		
6,700.00	5,550.11	5,200.00	5,151.19	36.54	19.93	-72.722	-201.83	-506.18	1,721.00	1,674.89	46.11	37.325		
6,800.00	5,550.91	5,200.00	5,151.19	38.44	19.93	-72.722	-201.83	-506.18	1,787.26	1,740.58	46.68	38.285		
6,900.00	5,551.71	5,174.68	5,127.37	40.39	19.88	-71.735	-196.04	-512.48	1,855.98	1,808.94	47.04	39.453		
7,000.00	5,552.51	5,150.00	5,103.80	42.38	19.82	-70.770	-191.08	-517.87	1,927.71	1,880.35	47.36	40.707		
7,100.00	5,553.32	5,150.00	5,103.80	44.40	19.82	-70.770	-191.08	-517.87	2,001.36	1,953.58	47.78	41.885		
7,200.00	5,554.12	5,150.00	5,103.80	46.44	19.82	-70.770	-191.08	-517.87	2,077.22	2,029.05	48.16	43.128		
7,300.00	5,554.92	5,150.00	5,103.80	48.51	19.82	-70.770	-191.08	-517.87	2,155.04	2,106.54	48.50	44.430		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 045H - Orig hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-152.813	-71.25	-36.60	80.10				
100.00	100.00	100.00	100.00	0.27	0.27	-152.813	-71.25	-36.60	80.10	79.55	0.55	146.049	
200.00	200.00	200.00	200.00	0.63	0.63	-152.813	-71.25	-36.60	80.10	78.84	1.27	63.302	
300.00	300.00	300.00	300.00	0.99	0.99	-152.813	-71.25	-36.60	80.10	78.12	1.98	40.408	
400.00	400.00	400.00	400.00	1.35	1.35	-152.813	-71.25	-36.60	80.10	77.40	2.70	29.675	
500.00	500.00	500.00	500.00	1.71	1.71	-152.813	-71.25	-36.60	80.10	76.69	3.42	23.448	
600.00	599.95	603.83	603.78	2.07	2.08	165.229	-68.43	-36.60	80.22	76.08	4.14	19.360	
700.00	699.63	707.41	707.01	2.43	2.46	169.557	-60.00	-36.60	80.88	76.02	4.86	16.626	
800.00	798.77	810.49	809.13	2.80	2.84	176.484	-46.07	-36.60	82.94	77.35	5.59	14.843	
900.00	897.10	912.82	909.63	3.19	3.25	-174.691	-26.86	-36.56	87.58	81.25	6.34	13.825	
1,000.00	995.08	1,015.46	1,010.05	3.61	3.68	-167.498	-6.00	-33.14	92.21	85.10	7.10	12.984	
1,100.00	1,093.07	1,117.15	1,109.43	4.05	4.12	-162.899	13.95	-24.96	94.28	86.40	7.88	11.963	
1,200.00	1,191.06	1,216.91	1,206.87	4.49	4.56	-158.864	33.41	-16.17	96.28	87.59	8.69	11.078	
1,300.00	1,289.04	1,316.66	1,304.31	4.94	5.01	-155.010	52.87	-7.38	98.74	89.22	9.53	10.367	
1,400.00	1,387.03	1,416.41	1,401.75	5.39	5.47	-151.359	72.32	1.41	101.63	91.25	10.38	9.788	
1,500.00	1,485.02	1,516.17	1,499.19	5.85	5.94	-147.922	91.78	10.19	104.91	93.65	11.26	9.316	
1,600.00	1,583.01	1,615.92	1,596.64	6.32	6.41	-144.704	111.24	18.98	108.54	96.38	12.16	8.926	
1,700.00	1,680.99	1,715.67	1,694.08	6.78	6.88	-141.702	130.70	27.77	112.50	99.42	13.07	8.605	
1,800.00	1,778.98	1,815.43	1,791.52	7.25	7.35	-138.910	150.15	36.56	116.74	102.74	14.00	8.337	
1,900.00	1,876.97	1,915.18	1,888.96	7.72	7.83	-136.319	169.61	45.34	121.24	106.30	14.94	8.114	
2,000.00	1,974.95	2,014.94	1,986.41	8.19	8.31	-133.917	189.07	54.13	125.97	110.08	15.89	7.927	
2,100.00	2,072.94	2,114.69	2,083.85	8.66	8.79	-131.693	208.52	62.92	130.91	114.06	16.85	7.769	
2,200.00	2,170.93	2,214.44	2,181.29	9.13	9.27	-129.632	227.98	71.71	136.02	118.21	17.81	7.637	
2,300.00	2,268.91	2,314.20	2,278.73	9.60	9.75	-127.723	247.44	80.49	141.30	122.53	18.78	7.525	
2,400.00	2,366.90	2,413.95	2,376.18	10.07	10.23	-125.953	266.89	89.28	146.73	126.98	19.75	7.430	
2,500.00	2,464.89	2,513.70	2,473.62	10.55	10.72	-124.311	286.35	98.07	152.29	131.56	20.72	7.349	
2,600.00	2,562.88	2,613.46	2,571.06	11.02	11.20	-122.785	305.81	106.86	157.96	136.26	21.70	7.280	
2,700.00	2,660.86	2,713.21	2,668.50	11.50	11.69	-121.366	325.26	115.64	163.74	141.06	22.67	7.221	
2,800.00	2,758.85	2,812.97	2,765.94	11.97	12.17	-120.044	344.72	124.43	169.61	145.95	23.65	7.171	
2,900.00	2,856.84	2,912.72	2,863.39	12.45	12.66	-118.810	364.18	133.22	175.56	150.93	24.63	7.128	
3,000.00	2,954.82	3,012.47	2,960.83	12.93	13.15	-117.659	383.63	142.01	181.59	155.98	25.61	7.091	
3,100.00	3,052.81	3,112.23	3,058.27	13.40	13.63	-116.581	403.09	150.79	187.69	161.10	26.59	7.060	
3,200.00	3,150.80	3,211.98	3,155.71	13.88	14.12	-115.572	422.55	159.58	193.85	166.29	27.56	7.033	
3,300.00	3,248.79	3,311.73	3,253.16	14.36	14.61	-114.625	442.01	168.37	200.06	171.52	28.54	7.010	
3,400.00	3,346.77	3,411.49	3,350.60	14.83	15.10	-113.735	461.46	177.16	206.33	176.82	29.52	6.990	
3,500.00	3,444.76	3,511.24	3,448.04	15.31	15.59	-112.898	480.92	185.94	212.65	182.15	30.49	6.973	
3,600.00	3,542.75	3,610.99	3,545.48	15.79	16.07	-112.109	500.38	194.73	219.00	187.53	31.47	6.959	
3,700.00	3,640.73	3,710.75	3,642.93	16.27	16.56	-111.365	519.83	203.52	225.40	192.95	32.45	6.947	
3,800.00	3,738.72	3,810.50	3,740.37	16.74	17.05	-110.662	539.29	212.31	231.83	198.41	33.42	6.937	
3,900.00	3,836.71	3,910.26	3,837.81	17.22	17.54	-109.997	558.75	221.09	238.30	203.90	34.40	6.928	
4,000.00	3,934.69	4,010.01	3,935.25	17.70	18.03	-109.367	578.20	229.88	244.79	209.42	35.37	6.921	
4,100.00	4,032.68	4,109.76	4,032.69	18.18	18.52	-108.770	597.66	238.67	251.32	214.97	36.34	6.915	
4,200.00	4,130.67	4,209.52	4,130.14	18.66	19.01	-108.203	617.12	247.46	257.87	220.55	37.32	6.910	
4,300.00	4,228.66	4,309.27	4,227.58	19.13	19.50	-107.664	636.57	256.24	264.44	226.15	38.29	6.906	
4,400.00	4,326.64	4,409.02	4,325.02	19.61	19.99	-107.151	656.03	265.03	271.03	231.77	39.26	6.903	
4,500.00	4,424.70	4,509.11	4,423.03	20.09	20.47	-106.902	674.50	273.37	277.51	237.30	40.21	6.901	
4,600.00	4,523.47	4,609.49	4,522.20	20.52	20.90	-106.945	688.56	279.72	282.62	241.54	41.08	6.880	
4,700.00	4,622.92	4,709.96	4,622.15	20.90	21.28	-106.990	697.85	283.92	286.01	244.17	41.84	6.836	
4,800.00	4,722.78	4,810.49	4,722.54	21.23	21.60	-107.037	702.35	285.95	287.69	245.19	42.50	6.769	
4,900.00	4,822.78	4,910.73	4,822.78	21.52	21.89	-63.639	702.80	286.15	287.88	244.81	43.07	6.684	
5,000.00	4,922.78	5,010.73	4,922.78	21.80	22.16	-63.639	702.80	286.15	287.88	244.25	43.64	6.598	
5,100.00	5,022.70	5,162.36	5,073.76	22.09	22.55	-15.037	696.16	293.93	280.37	236.72	43.65	6.423	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 045H - Orig hole - rev0													Offset Site Error:	0.00 ft	
Survey Program:		0-MWD					Rule Assigned:							Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)				
5,200.00	5,120.99	5,316.79	5,219.71	22.36	22.83	-22.770	664.36	331.22	233.71	192.83	40.88	5.717	Level 3<2.00, CC, ES, SF		
5,300.00	5,214.71	5,409.21	5,298.93	22.61	22.95	-44.696	633.59	367.30	161.00	122.54	38.46	4.186			
5,400.00	5,301.02	5,454.41	5,334.64	22.84	23.00	-79.254	615.62	388.37	87.44	47.79	39.65	2.205			
5,453.36	5,343.12	5,465.56	5,343.11	22.95	23.00	-89.994	610.91	393.89	70.10	30.70	39.40	1.779			
5,500.00	5,377.28	5,470.04	5,346.47	23.05	23.01	-92.092	608.99	396.14	84.07	50.40	33.67	2.497			
5,600.00	5,441.19	5,467.51	5,344.57	23.26	23.01	-76.567	610.08	394.86	162.16	130.09	32.07	5.057			
5,700.00	5,490.80	5,450.00	5,331.25	23.50	22.99	-46.181	617.45	386.22	254.21	221.04	33.16	7.665			
5,800.00	5,524.60	5,431.81	5,317.06	23.86	22.97	-27.905	624.83	377.57	345.89	310.82	35.08	9.861			
5,900.00	5,541.57	5,400.00	5,291.39	24.48	22.94	-17.477	637.02	363.27	433.75	397.51	36.23	11.971			
6,000.00	5,544.50	5,375.93	5,271.30	25.44	22.91	-9.948	645.62	353.19	518.13	480.26	37.88	13.679			
6,100.00	5,545.30	5,350.00	5,249.05	26.65	22.88	-9.360	654.26	343.06	604.23	565.28	38.95	15.514			
6,200.00	5,546.10	5,328.12	5,229.82	28.03	22.85	-8.906	661.04	335.12	692.38	652.56	39.82	17.390			
6,300.00	5,546.90	5,300.00	5,204.55	29.56	22.81	-8.373	669.04	325.73	782.31	742.04	40.27	19.426			
6,400.00	5,547.71	5,300.00	5,204.55	31.18	22.81	-8.373	669.04	325.73	873.43	832.17	41.26	21.169			
6,500.00	5,548.51	5,277.32	5,183.75	32.90	22.77	-7.980	674.90	318.86	965.60	924.05	41.55	23.237			
6,600.00	5,549.31	5,250.00	5,158.24	34.69	22.73	-7.543	681.24	311.42	1,059.05	1,017.35	41.70	25.395			
6,700.00	5,550.11	5,250.00	5,158.24	36.54	22.73	-7.543	681.24	311.42	1,152.73	1,110.48	42.25	27.284			
6,800.00	5,550.91	5,250.00	5,158.24	38.44	22.73	-7.543	681.24	311.42	1,247.39	1,204.71	42.68	29.224			
6,900.00	5,551.71	5,250.00	5,158.24	40.39	22.73	-7.543	681.24	311.42	1,342.83	1,299.79	43.04	31.202			
7,000.00	5,552.51	5,224.09	5,133.65	42.38	22.68	-7.162	686.52	305.23	1,438.07	1,395.02	43.04	33.411			
7,100.00	5,553.32	5,200.00	5,110.47	44.40	22.63	-6.834	690.78	300.24	1,534.41	1,491.34	43.07	35.629			
7,200.00	5,554.12	5,200.00	5,110.47	46.44	22.63	-6.834	690.78	300.24	1,630.57	1,587.25	43.32	37.641			
7,300.00	5,554.92	5,200.00	5,110.47	48.51	22.63	-6.834	690.78	300.24	1,727.16	1,683.63	43.53	39.674			
7,400.00	5,555.72	5,200.00	5,110.47	50.61	22.63	-6.834	690.78	300.24	1,824.12	1,780.40	43.72	41.722			
7,500.00	5,556.52	5,200.00	5,110.47	52.72	22.63	-6.834	690.78	300.24	1,921.40	1,877.51	43.89	43.781			
7,600.00	5,557.32	5,200.00	5,110.47	54.85	22.63	-6.834	690.78	300.24	2,018.94	1,974.91	44.03	45.852			
7,700.00	5,558.12	5,200.00	5,110.47	56.99	22.63	-6.834	690.78	300.24	2,116.71	2,072.55	44.16	47.930			
7,800.00	5,558.92	5,177.14	5,088.24	59.15	22.58	-6.543	694.24	296.19	2,214.10	2,169.97	44.14	50.165			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 046H - Orig hole - rev0													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Rule Assigned:													
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-153.041	-53.53	-27.23	60.06				
100.00	100.00	100.00	100.00	0.27	0.27	-153.041	-53.53	-27.23	60.06	59.51	0.55	109.507	
200.00	200.00	200.00	200.00	0.63	0.63	-153.041	-53.53	-27.23	60.06	58.79	1.27	47.463	
300.00	300.00	300.00	300.00	0.99	0.99	-153.041	-53.53	-27.23	60.06	58.08	1.98	30.298	
400.00	400.00	400.00	400.00	1.35	1.35	-153.041	-53.53	-27.23	60.06	57.36	2.70	22.250	
500.00	500.00	500.00	500.00	1.71	1.71	-153.041	-53.53	-27.23	60.06	56.64	3.42	17.581	
600.00	599.95	599.95	599.95	2.07	2.07	164.198	-53.53	-27.23	62.57	58.44	4.13	15.143	
700.00	699.63	699.63	699.63	2.43	2.42	165.887	-53.53	-27.23	70.16	65.30	4.85	14.458	
800.00	798.77	798.77	798.77	2.80	2.78	168.007	-53.53	-27.23	82.88	77.30	5.57	14.867	
900.00	897.10	901.82	901.77	3.19	3.15	169.463	-52.18	-24.88	98.40	92.10	6.30	15.612	
1,000.00	995.08	1,006.32	1,005.92	3.61	3.52	169.502	-47.90	-17.64	110.92	103.91	7.01	15.815	
1,100.00	1,093.07	1,112.18	1,110.81	4.05	3.91	168.708	-39.85	-5.88	118.23	110.50	7.73	15.291	
1,200.00	1,191.06	1,218.51	1,215.20	4.49	4.32	167.226	-27.85	10.25	120.23	111.78	8.45	14.225	
1,300.00	1,289.04	1,324.64	1,318.13	4.94	4.77	164.891	-11.98	30.59	117.03	107.85	9.18	12.748	
1,400.00	1,387.03	1,429.92	1,418.67	5.39	5.27	161.313	7.55	54.92	108.90	98.98	9.92	10.979	
1,500.00	1,485.02	1,533.74	1,515.99	5.85	5.82	155.684	30.44	82.87	96.37	85.64	10.73	8.985	
1,600.00	1,583.01	1,635.53	1,609.36	6.32	6.42	146.308	56.33	114.02	80.62	68.91	11.71	6.886	
1,700.00	1,680.99	1,735.16	1,699.06	6.78	7.07	131.030	85.03	146.50	64.36	51.30	13.06	4.928	
1,800.00	1,778.98	1,834.53	1,788.36	7.25	7.75	109.781	117.34	175.72	50.30	35.61	14.69	3.425	
1,900.00	1,876.97	1,933.16	1,876.74	7.72	8.44	79.035	152.98	201.11	41.71	25.74	15.97	2.612	
1,919.68	1,896.25	1,952.14	1,893.71	7.81	8.57	72.106	160.10	205.72	41.38	25.36	16.02	2.582 CC, ES, SF	
2,000.00	1,974.95	2,029.58	1,962.99	8.19	9.11	45.727	189.16	224.55	46.54	30.91	15.62	2.978	
2,100.00	2,072.94	2,126.01	2,049.24	8.66	9.81	24.035	225.35	247.98	63.21	47.83	15.38	4.111	
2,200.00	2,170.93	2,222.43	2,135.49	9.13	10.52	12.124	261.53	271.41	85.03	69.26	15.77	5.392	
2,300.00	2,268.91	2,318.86	2,221.74	9.60	11.24	5.173	297.72	294.84	108.95	92.52	16.43	6.631	
2,400.00	2,366.90	2,415.28	2,308.00	10.07	11.97	0.740	333.90	318.28	133.84	116.65	17.19	7.787	
2,500.00	2,464.89	2,511.71	2,394.25	10.55	12.70	-2.300	370.09	341.71	159.25	141.27	17.99	8.853	
2,600.00	2,562.88	2,608.13	2,480.50	11.02	13.45	-4.503	406.27	365.14	184.97	166.17	18.81	9.836	
2,700.00	2,660.86	2,704.56	2,566.75	11.50	14.19	-6.168	442.45	388.58	210.88	191.25	19.63	10.741	
2,800.00	2,758.85	2,800.98	2,653.00	11.97	14.95	-7.469	478.64	412.01	236.93	216.46	20.47	11.576	
2,900.00	2,856.84	2,897.41	2,739.25	12.45	15.70	-8.512	514.82	435.44	263.06	241.75	21.30	12.348	
3,000.00	2,954.82	2,993.83	2,825.51	12.93	16.46	-9.367	551.01	458.88	289.26	267.12	22.14	13.063	
3,100.00	3,052.81	3,090.26	2,911.76	13.40	17.22	-10.080	587.19	482.31	315.51	292.53	22.98	13.728	
3,200.00	3,150.80	3,186.68	2,998.01	13.88	17.98	-10.684	623.38	505.74	341.80	317.97	23.82	14.346	
3,300.00	3,248.79	3,283.11	3,084.26	14.36	18.75	-11.201	659.56	529.18	368.12	343.45	24.67	14.923	
3,400.00	3,346.77	3,379.53	3,170.51	14.83	19.52	-11.649	695.75	552.61	394.46	368.95	25.51	15.463	
3,500.00	3,444.76	3,475.96	3,256.76	15.31	20.28	-12.042	731.93	576.04	420.82	394.47	26.35	15.968	
3,600.00	3,542.75	3,572.38	3,343.02	15.79	21.05	-12.388	768.11	599.47	447.20	420.00	27.20	16.442	
3,700.00	3,640.73	3,668.81	3,429.27	16.27	21.83	-12.695	804.30	622.91	473.59	445.55	28.04	16.887	
3,800.00	3,738.72	3,765.23	3,515.52	16.74	22.60	-12.970	840.48	646.34	500.00	471.11	28.89	17.307	
3,900.00	3,836.71	3,861.66	3,601.77	17.22	23.37	-13.217	876.67	669.77	526.41	496.67	29.74	17.702	
4,000.00	3,934.69	3,958.08	3,688.02	17.70	24.15	-13.441	912.85	693.21	552.83	522.25	30.58	18.076	
4,100.00	4,032.68	4,054.51	3,774.27	18.18	24.92	-13.645	949.04	716.64	579.26	547.83	31.43	18.430	
4,200.00	4,130.67	4,150.93	3,860.53	18.66	25.70	-13.830	985.22	740.07	605.70	573.42	32.28	18.765	
4,300.00	4,228.66	4,247.36	3,946.78	19.13	26.48	-14.000	1,021.40	763.51	632.14	599.01	33.13	19.083	
4,400.00	4,326.64	4,343.78	4,033.03	19.61	27.26	-14.157	1,057.59	786.94	658.58	624.61	33.97	19.385	
4,500.00	4,424.70	4,440.12	4,119.20	20.09	28.03	-14.370	1,093.74	810.35	685.35	650.53	34.82	19.682	
4,600.00	4,523.47	4,535.30	4,204.34	20.52	28.80	-14.652	1,129.46	833.48	715.98	680.33	35.64	20.088	
4,700.00	4,622.92	4,628.80	4,287.98	20.90	29.56	-14.870	1,164.55	856.21	751.39	714.96	36.43	20.625	
4,800.00	4,722.78	4,720.38	4,369.89	21.23	30.30	-15.040	1,198.91	878.46	791.48	754.30	37.18	21.287	
4,900.00	4,822.78	4,810.09	4,450.14	21.52	31.02	-15.240	1,232.57	900.26	835.56	797.66	37.90	22.046	
5,000.00	4,922.78	4,899.54	4,530.15	21.80	31.75	-15.440	1,266.14	922.00	880.16	841.55	38.61	22.796	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Bobby B 046H - Orig hole - rev0													Offset Site Error:	0.00 ft
Survey Program:		0-MWD						Rule Assigned:					Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.00	5,022.70	4,989.06	4,610.23	22.09	32.47	76.108	1,299.74	943.75	924.32	885.02	39.30	23.519		
5,200.00	5,120.99	5,078.02	4,689.80	22.36	33.19	73.053	1,333.12	965.37	965.25	925.34	39.91	24.186		
5,300.00	5,214.71	5,163.87	4,766.59	22.61	33.89	71.279	1,365.33	986.24	1,002.35	961.86	40.48	24.759		
5,400.00	5,301.02	5,244.01	4,838.28	22.84	34.54	70.394	1,395.41	1,005.71	1,036.03	994.92	41.11	25.203		
5,500.00	5,377.28	5,316.00	4,902.67	23.05	35.12	69.990	1,422.42	1,023.21	1,067.20	1,025.31	41.89	25.474		
5,600.00	5,441.19	5,377.66	4,957.83	23.26	35.62	69.665	1,445.56	1,038.19	1,096.96	1,054.01	42.95	25.541		
5,700.00	5,490.80	5,436.38	5,010.66	23.50	36.09	69.560	1,465.50	1,054.17	1,126.19	1,081.72	44.46	25.328		
5,800.00	5,524.60	5,463.69	5,035.39	23.86	36.30	68.003	1,473.18	1,062.86	1,156.24	1,110.09	46.16	25.050		
5,900.00	5,541.57	5,469.89	5,041.01	24.48	36.35	65.308	1,474.77	1,064.94	1,187.62	1,139.57	48.05	24.718		
6,000.00	5,544.50	5,466.28	5,037.74	25.44	36.32	64.198	1,473.85	1,063.73	1,217.11	1,167.00	50.11	24.290		
6,100.00	5,545.30	5,462.68	5,034.47	26.65	36.30	64.020	1,472.91	1,062.53	1,251.66	1,199.39	52.27	23.946		
6,200.00	5,546.10	5,450.00	5,022.99	28.03	36.20	63.393	1,469.46	1,058.41	1,293.09	1,238.80	54.29	23.820		
6,300.00	5,546.90	5,450.00	5,022.99	29.56	36.20	63.393	1,469.46	1,058.41	1,340.62	1,284.25	56.37	23.782		
6,400.00	5,547.71	5,450.00	5,022.99	31.18	36.20	63.393	1,469.46	1,058.41	1,393.72	1,335.41	58.30	23.904		
6,500.00	5,548.51	5,450.00	5,022.99	32.90	36.20	63.393	1,469.46	1,058.41	1,451.77	1,391.70	60.07	24.169		
6,600.00	5,549.31	5,450.00	5,022.99	34.69	36.20	63.393	1,469.46	1,058.41	1,514.20	1,452.55	61.65	24.561		
6,700.00	5,550.11	5,450.00	5,022.99	36.54	36.20	63.393	1,469.46	1,058.41	1,580.51	1,517.45	63.06	25.064		
6,800.00	5,550.91	5,450.00	5,022.99	38.44	36.20	63.393	1,469.46	1,058.41	1,650.21	1,585.91	64.30	25.665		
6,900.00	5,551.71	5,450.00	5,022.99	40.39	36.20	63.393	1,469.46	1,058.41	1,722.90	1,657.51	65.39	26.348		
7,000.00	5,552.51	5,450.00	5,022.99	42.38	36.20	63.393	1,469.46	1,058.41	1,798.21	1,731.86	66.35	27.103		
7,100.00	5,553.32	5,450.00	5,022.99	44.40	36.20	63.393	1,469.46	1,058.41	1,875.83	1,808.65	67.18	27.921		
7,200.00	5,554.12	5,450.00	5,022.99	46.44	36.20	63.393	1,469.46	1,058.41	1,955.49	1,887.57	67.92	28.793		
7,300.00	5,554.92	5,450.00	5,022.99	48.51	36.20	63.393	1,469.46	1,058.41	2,036.94	1,968.38	68.56	29.712		
7,400.00	5,555.72	5,450.00	5,022.99	50.61	36.20	63.393	1,469.46	1,058.41	2,119.98	2,050.86	69.12	30.672		
7,500.00	5,556.52	5,450.00	5,022.99	52.72	36.20	63.393	1,469.46	1,058.41	2,204.42	2,134.81	69.61	31.668		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Rincon 001 - Orig hole - Inc only surveys													Offset Site Error:	0.00 ft
Survey Program: 270-INC-ONLY													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	42.50	42.50	0.00	0.94	-15.024	1,679.28	-450.70	1,738.70					
100.00	100.00	142.50	142.50	0.27	3.15	-15.024	1,679.28	-450.70	1,738.70	1,735.28	3.43	507.298		
200.00	200.00	242.50	242.50	0.63	5.37	-15.024	1,679.28	-450.70	1,738.70	1,732.71	6.00	289.852		
300.00	300.00	342.50	342.50	0.99	7.96	-15.024	1,679.28	-450.70	1,738.70	1,729.75	8.95	194.213		
400.00	400.00	442.50	442.50	1.35	10.70	-15.024	1,679.28	-450.70	1,738.70	1,726.65	12.05	144.270		
500.00	500.00	542.50	542.50	1.71	13.44	-15.024	1,679.28	-450.70	1,738.70	1,723.55	15.15	114.759		
600.00	599.95	643.20	643.20	2.07	16.20	-58.550	1,679.60	-450.70	1,737.65	1,719.38	18.27	95.121		
700.00	699.63	744.07	744.07	2.43	18.97	-58.881	1,679.52	-450.70	1,733.49	1,712.10	21.39	81.031		
800.00	798.77	844.37	844.36	2.80	21.72	-59.433	1,679.37	-450.70	1,726.61	1,702.09	24.51	70.433		
900.00	897.10	939.61	939.60	3.19	24.10	-60.134	1,679.28	-450.70	1,717.27	1,689.97	27.30	62.913		
1,000.00	995.08	1,037.60	1,037.58	3.61	26.35	-60.706	1,679.28	-450.70	1,707.26	1,677.31	29.95	57.004		
1,100.00	1,093.07	1,135.60	1,135.59	4.05	28.60	-61.279	1,679.81	-450.70	1,697.94	1,665.32	32.62	52.058		
1,200.00	1,191.06	1,236.48	1,236.46	4.49	30.91	-61.882	1,679.72	-450.70	1,688.20	1,652.84	35.36	47.746		
1,300.00	1,289.04	1,337.30	1,337.28	4.94	33.23	-62.494	1,679.45	-450.70	1,678.48	1,640.37	38.11	44.048		
1,400.00	1,387.03	1,429.58	1,429.53	5.39	35.27	-63.059	1,679.28	-450.70	1,669.02	1,628.43	40.59	41.115		
1,500.00	1,485.02	1,527.56	1,527.52	5.85	37.38	-63.664	1,679.28	-450.70	1,659.92	1,616.77	43.15	38.470		
1,600.00	1,583.01	1,625.55	1,625.51	6.32	39.49	-64.274	1,679.28	-450.70	1,651.02	1,605.31	45.71	36.121		
1,700.00	1,680.99	1,726.51	1,726.46	6.78	41.66	-64.900	1,680.07	-450.70	1,643.05	1,594.72	48.33	33.993		
1,800.00	1,778.98	1,828.26	1,828.21	7.25	43.85	-65.552	1,679.75	-450.70	1,634.25	1,583.27	50.98	32.056		
1,900.00	1,876.97	1,919.57	1,919.47	7.72	45.81	-66.144	1,679.28	-450.70	1,625.48	1,572.07	53.41	30.435		
2,000.00	1,974.95	2,017.56	2,017.45	8.19	47.93	-66.780	1,679.28	-450.70	1,617.37	1,561.38	55.98	28.889		
2,100.00	2,072.94	2,115.55	2,115.44	8.66	50.04	-67.422	1,679.28	-450.70	1,609.47	1,550.90	58.56	27.482		
2,200.00	2,170.93	2,215.84	2,215.72	9.13	52.21	-68.070	1,680.35	-450.70	1,602.76	1,541.56	61.19	26.191		
2,300.00	2,268.91	2,318.93	2,318.80	9.60	54.43	-68.763	1,680.01	-450.70	1,594.98	1,531.09	63.89	24.966		
2,400.00	2,366.90	2,421.92	2,421.78	10.07	56.65	-69.467	1,679.30	-450.70	1,587.10	1,520.52	66.58	23.838		
2,500.00	2,464.89	2,507.57	2,507.39	10.55	58.35	-70.050	1,679.28	-450.70	1,579.98	1,511.22	68.76	22.978		
2,600.00	2,562.88	2,609.59	2,609.39	11.02	60.38	-70.740	1,679.82	-450.70	1,573.65	1,502.39	71.26	22.084		
2,700.00	2,660.86	2,703.61	2,703.36	11.50	62.25	-71.397	1,679.28	-450.70	1,566.56	1,492.96	73.60	21.284		
2,800.00	2,758.85	2,801.60	2,801.35	11.97	64.56	-72.080	1,679.28	-450.70	1,560.19	1,483.80	76.39	20.423		
2,900.00	2,856.84	2,899.59	2,899.34	12.45	66.87	-72.767	1,679.28	-450.70	1,554.05	1,474.87	79.18	19.626		
3,000.00	2,954.82	3,000.19	2,999.92	12.93	69.24	-73.448	1,680.93	-450.70	1,549.58	1,467.55	82.04	18.889		
3,100.00	3,052.81	3,105.27	3,104.98	13.40	71.72	-74.205	1,680.45	-450.70	1,543.51	1,458.52	84.99	18.160		
3,200.00	3,150.80	3,210.20	3,209.89	13.88	74.20	-74.977	1,679.41	-450.70	1,537.24	1,449.30	87.95	17.479		
3,300.00	3,248.79	3,291.75	3,291.29	14.36	76.13	-75.567	1,679.28	-450.70	1,531.84	1,441.47	90.38	16.950		
3,400.00	3,346.77	3,403.69	3,403.21	14.83	78.79	-76.372	1,679.68	-450.70	1,527.30	1,433.79	93.51	16.333		
3,500.00	3,444.76	3,487.82	3,487.26	15.31	80.82	-76.995	1,679.28	-450.70	1,522.19	1,426.16	96.03	15.851		
3,600.00	3,542.75	3,585.81	3,585.25	15.79	83.20	-77.715	1,679.28	-450.70	1,517.74	1,418.84	98.90	15.347		
3,700.00	3,640.73	3,684.34	3,683.75	16.27	85.59	-78.404	1,681.12	-450.70	1,515.05	1,413.27	101.78	14.886		
3,800.00	3,738.72	3,790.61	3,790.01	16.74	88.17	-79.201	1,680.72	-450.70	1,510.78	1,405.94	104.84	14.410		
3,900.00	3,836.71	3,896.70	3,896.07	17.22	90.75	-80.018	1,679.61	-450.70	1,506.24	1,398.35	107.90	13.960		
4,000.00	3,934.69	3,977.95	3,977.19	17.70	92.76	-80.634	1,679.28	-450.70	1,502.44	1,392.03	110.41	13.608		
4,100.00	4,032.68	4,075.94	4,075.18	18.18	95.21	-81.372	1,679.28	-450.70	1,499.25	1,385.91	113.34	13.228		
4,200.00	4,130.67	4,173.92	4,173.17	18.66	97.65	-82.112	1,679.28	-450.70	1,496.33	1,380.06	116.27	12.870		
4,300.00	4,228.66	4,275.35	4,274.57	19.13	100.18	-82.839	1,681.08	-450.70	1,495.06	1,375.78	119.28	12.534		
4,400.00	4,326.64	4,378.68	4,377.88	19.61	102.76	-83.638	1,680.53	-450.70	1,492.25	1,369.90	122.34	12.197		
4,500.00	4,424.70	4,481.94	4,481.13	20.09	105.34	-84.408	1,679.50	-450.70	1,489.39	1,364.00	125.40	11.878		
4,600.00	4,523.47	4,566.89	4,565.97	20.52	107.45	-84.860	1,679.28	-450.70	1,487.67	1,359.72	127.96	11.627		
4,700.00	4,622.92	4,666.35	4,665.42	20.90	109.92	-85.228	1,679.28	-450.70	1,486.78	1,355.96	130.81	11.366		
4,800.00	4,722.78	4,766.20	4,765.28	21.23	112.40	-85.412	1,679.28	-450.70	1,486.36	1,352.73	133.63	11.123		
4,804.21	4,726.99	4,770.41	4,769.49	21.25	112.51	-85.416	1,679.28	-450.70	1,486.35	1,352.61	133.74	11.114		
4,900.00	4,822.78	4,870.70	4,869.75	21.52	115.00	-41.981	1,680.55	-450.70	1,487.26	1,350.75	136.51	10.895		
5,000.00	4,922.78	4,975.40	4,974.45	21.80	117.60	-41.998	1,679.90	-450.70	1,486.80	1,347.41	139.39	10.666		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Rincon 001 - Orig hole - Inc only surveys												Offset Site Error:	0.00 ft
Survey Program: 270-INC-ONLY												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.00	5,022.70	5,066.28	5,065.20	22.09	119.93	7.579	1,679.28	-450.70	1,483.96	1,341.95	142.00	10.450	
5,200.00	5,120.99	5,164.57	5,163.49	22.36	122.64	7.913	1,679.28	-450.70	1,466.40	1,321.42	144.98	10.115	
5,300.00	5,214.71	5,258.29	5,257.21	22.61	125.22	8.635	1,679.28	-450.70	1,432.20	1,284.40	147.80	9.690	
5,400.00	5,301.02	5,344.60	5,343.52	22.84	127.60	9.890	1,679.28	-450.70	1,382.42	1,232.05	150.37	9.193	
5,500.00	5,377.28	5,420.86	5,419.78	23.05	129.70	11.980	1,679.28	-450.70	1,318.61	1,165.99	152.62	8.640	
5,600.00	5,441.19	5,484.77	5,483.69	23.26	131.46	15.558	1,679.28	-450.70	1,242.75	1,088.28	154.47	8.045	
5,700.00	5,490.80	5,534.38	5,533.30	23.50	132.83	22.180	1,679.28	-450.70	1,157.23	1,001.36	155.87	7.424	
5,800.00	5,524.60	5,568.18	5,567.10	23.86	133.76	36.124	1,679.28	-450.70	1,064.71	907.95	156.76	6.792	
5,900.00	5,541.57	5,585.15	5,584.07	24.48	134.23	67.481	1,679.28	-450.70	968.12	810.98	157.14	6.161	
6,000.00	5,544.50	5,588.08	5,587.00	25.44	134.31	87.118	1,679.28	-450.70	869.58	712.46	157.11	5.535	
6,100.00	5,545.30	5,588.88	5,587.80	26.65	134.33	87.453	1,679.28	-450.70	770.98	613.96	157.03	4.910	
6,200.00	5,546.10	5,589.68	5,588.60	28.03	134.35	87.788	1,679.28	-450.70	672.80	515.87	156.94	4.287	
6,300.00	5,546.90	5,590.48	5,589.40	29.56	134.37	88.124	1,679.28	-450.70	575.25	418.39	156.86	3.667	
6,400.00	5,547.71	5,591.29	5,590.21	31.18	134.40	88.459	1,679.28	-450.70	478.71	321.87	156.84	3.052	
6,500.00	5,548.51	5,592.09	5,591.01	32.90	134.42	88.795	1,679.28	-450.70	383.94	226.92	157.02	2.445	
6,600.00	5,549.31	5,592.89	5,591.81	34.69	134.44	89.131	1,679.28	-450.70	292.67	134.90	157.77	1.855 Level 3<2.00	
6,700.00	5,550.11	5,593.69	5,592.61	36.54	134.46	89.467	1,679.28	-450.70	209.52	49.18	160.34	1.307 Level 3<2.00	
6,800.00	5,550.91	5,594.49	5,593.41	38.44	134.48	89.803	1,679.28	-450.70	148.79	-17.30	166.10	0.896 Level 3<2.00	
6,858.80	5,551.38	5,594.96	5,593.88	39.59	134.50	90.000	1,679.28	-450.70	136.69	-34.10	170.79	0.800 Level 3<2.00, CC, ES, SF	
6,900.00	5,551.71	5,595.29	5,594.21	40.39	134.51	90.138	1,679.28	-450.70	142.76	-30.10	172.87	0.826 Level 3<2.00	
7,000.00	5,552.51	5,596.09	5,595.01	42.38	134.53	90.474	1,679.28	-450.70	196.52	26.10	170.42	1.153 Level 3<2.00	
7,100.00	5,553.32	5,596.89	5,595.82	44.40	134.55	90.810	1,679.28	-450.70	277.23	110.68	166.56	1.665 Level 3<2.00	
7,200.00	5,554.12	5,597.70	5,596.62	46.44	134.57	91.146	1,679.28	-450.70	367.55	203.17	164.38	2.236	
7,300.00	5,554.92	5,598.50	5,597.42	48.51	134.59	91.482	1,679.28	-450.70	461.88	298.77	163.11	2.832	
7,400.00	5,555.72	5,599.30	5,598.22	50.61	134.62	91.817	1,679.28	-450.70	558.18	395.87	162.31	3.439	
7,500.00	5,556.52	5,600.10	5,599.02	52.72	134.64	92.153	1,679.28	-450.70	655.59	493.82	161.77	4.053	
7,600.00	5,557.32	5,600.90	5,599.82	54.85	134.66	92.488	1,679.28	-450.70	753.68	592.28	161.40	4.670	
7,700.00	5,558.12	5,601.70	5,600.62	56.99	134.68	92.823	1,679.28	-450.70	852.21	691.09	161.12	5.289	
7,800.00	5,558.92	5,602.50	5,601.42	59.15	134.70	93.158	1,679.28	-450.70	951.05	790.13	160.92	5.910	
7,900.00	5,559.73	5,603.31	5,602.23	61.32	134.73	93.493	1,679.28	-450.70	1,050.11	889.34	160.77	6.532	
8,000.00	5,560.53	5,604.11	5,603.03	63.50	134.75	93.828	1,679.28	-450.70	1,149.32	988.67	160.65	7.154	
8,100.00	5,561.33	5,604.91	5,603.83	65.69	134.77	94.162	1,679.28	-450.70	1,248.67	1,088.10	160.56	7.777	
8,200.00	5,562.13	5,605.71	5,604.63	67.89	134.79	94.496	1,679.28	-450.70	1,348.11	1,187.61	160.50	8.400	
8,300.00	5,562.93	5,606.51	5,605.43	70.10	134.82	94.829	1,679.28	-450.70	1,447.63	1,287.18	160.45	9.022	
8,400.00	5,563.73	5,607.31	5,606.23	72.31	134.84	95.163	1,679.28	-450.70	1,547.20	1,386.79	160.41	9.645	
8,500.00	5,564.53	5,608.11	5,607.03	74.53	134.86	95.496	1,679.28	-450.70	1,646.83	1,486.45	160.39	10.268	
8,600.00	5,565.34	5,608.91	5,607.84	76.76	134.88	95.828	1,679.28	-450.70	1,746.51	1,586.13	160.37	10.890	
8,700.00	5,566.14	5,609.72	5,608.64	78.99	134.90	96.161	1,679.28	-450.70	1,846.21	1,685.85	160.36	11.513	
8,800.00	5,566.94	5,610.52	5,609.44	81.22	134.93	96.493	1,679.28	-450.70	1,945.95	1,785.59	160.36	12.135	
8,900.00	5,567.74	5,611.32	5,610.24	83.46	134.95	96.824	1,679.28	-450.70	2,045.71	1,885.35	160.36	12.757	
9,000.00	5,568.54	5,612.12	5,611.04	85.71	134.97	97.155	1,679.28	-450.70	2,145.49	1,985.12	160.38	13.378	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Rincon 002 - Orig hole - Inc only surveys												Offset Site Error:	0.00 ft
Survey Program: 275-INC-ONLY												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	48.041	926.62	1,030.61	1,386.07				
100.00	100.00	79.50	79.50	0.27	1.83	48.041	926.62	1,030.61	1,385.92	1,383.82	2.10	658.785	
200.00	200.00	179.50	179.50	0.63	4.13	48.041	926.62	1,030.61	1,385.92	1,381.16	4.76	290.945	
300.00	300.00	279.50	279.50	0.99	6.43	48.041	926.62	1,030.61	1,385.92	1,378.50	7.42	186.723	
400.00	400.00	379.50	379.50	1.35	8.71	48.041	926.62	1,030.61	1,385.92	1,375.86	10.06	137.775	
500.00	500.00	479.50	479.50	1.71	10.99	48.041	926.62	1,030.61	1,385.92	1,373.22	12.70	109.160	
600.00	599.95	581.16	581.15	2.07	13.30	4.625	927.01	1,030.61	1,383.57	1,368.20	15.37	90.018	
700.00	699.63	682.73	682.72	2.43	15.62	4.680	926.72	1,030.61	1,375.56	1,357.51	18.05	76.223	
800.00	798.77	778.29	778.27	2.80	17.89	4.759	926.62	1,030.61	1,362.48	1,341.80	20.69	65.866	
900.00	897.10	876.62	876.60	3.19	20.26	4.862	926.62	1,030.61	1,344.39	1,320.96	23.43	57.375	
1,000.00	995.08	974.70	974.68	3.61	22.63	4.916	927.19	1,030.61	1,324.88	1,298.72	26.15	50.659	
1,100.00	1,093.07	1,074.13	1,074.10	4.05	25.03	4.996	927.10	1,030.61	1,304.92	1,276.01	28.91	45.137	
1,200.00	1,191.06	1,173.51	1,173.48	4.49	27.42	5.083	926.84	1,030.61	1,284.87	1,253.20	31.67	40.570	
1,300.00	1,289.04	1,268.58	1,268.54	4.94	29.55	5.168	926.62	1,030.61	1,264.83	1,230.67	34.16	37.029	
1,400.00	1,387.03	1,366.57	1,366.53	5.39	31.47	5.251	926.62	1,030.61	1,244.95	1,208.49	36.45	34.152	
1,500.00	1,485.02	1,465.10	1,465.06	5.85	33.41	5.321	927.05	1,030.61	1,225.35	1,186.59	38.76	31.613	
1,600.00	1,583.01	1,564.78	1,564.73	6.32	35.37	5.417	926.88	1,030.61	1,205.36	1,164.27	41.09	29.333	
1,700.00	1,680.99	1,660.55	1,660.49	6.78	37.26	5.516	926.62	1,030.61	1,185.31	1,141.96	43.35	27.344	
1,800.00	1,778.98	1,758.53	1,758.48	7.25	39.18	5.610	926.62	1,030.61	1,165.44	1,119.79	45.65	25.531	
1,900.00	1,876.97	1,856.52	1,856.47	7.72	41.11	5.708	926.62	1,030.61	1,145.57	1,097.62	47.95	23.891	
2,000.00	1,974.95	1,955.45	1,955.39	8.19	43.06	5.791	927.11	1,030.61	1,126.02	1,075.75	50.27	22.401	
2,100.00	2,072.94	2,054.69	2,054.63	8.66	45.01	5.905	926.90	1,030.61	1,106.02	1,053.43	52.59	21.030	
2,200.00	2,170.93	2,150.50	2,150.43	9.13	46.95	6.022	926.62	1,030.61	1,085.98	1,031.06	54.91	19.776	
2,300.00	2,268.91	2,248.49	2,248.41	9.60	49.16	6.135	926.62	1,030.61	1,066.12	1,008.62	57.50	18.541	
2,400.00	2,366.90	2,346.48	2,346.40	10.07	51.37	6.251	926.62	1,030.61	1,046.27	986.18	60.09	17.412	
2,500.00	2,464.89	2,444.61	2,444.53	10.55	53.59	6.345	927.27	1,030.61	1,026.85	964.17	62.68	16.383	
2,600.00	2,562.88	2,543.53	2,543.45	11.02	55.82	6.475	927.18	1,030.61	1,006.94	941.66	65.29	15.423	
2,700.00	2,660.86	2,642.41	2,642.33	11.50	58.05	6.618	926.95	1,030.61	986.96	919.06	67.90	14.536	
2,800.00	2,758.85	2,738.48	2,738.35	11.97	60.21	6.767	926.62	1,030.61	966.91	896.48	70.43	13.728	
2,900.00	2,856.84	2,836.46	2,836.34	12.45	62.31	6.909	926.62	1,030.61	947.08	874.17	72.91	12.989	
3,000.00	2,954.82	2,934.45	2,934.32	12.93	64.41	7.057	926.62	1,030.61	927.26	851.87	75.39	12.299	
3,100.00	3,052.81	3,033.53	3,033.39	13.40	66.53	7.162	927.66	1,030.61	908.11	830.22	77.89	11.659	
3,200.00	3,150.80	3,133.48	3,133.33	13.88	68.67	7.344	927.30	1,030.61	888.08	807.67	80.41	11.045	
3,300.00	3,248.79	3,233.33	3,233.17	14.36	70.81	7.553	926.59	1,030.61	867.83	784.91	82.92	10.466	
3,400.00	3,346.77	3,326.46	3,326.27	14.83	72.63	7.720	926.62	1,030.61	848.04	762.92	85.12	9.963	
3,500.00	3,444.76	3,424.45	3,424.26	15.31	74.54	7.905	926.62	1,030.61	828.26	740.84	87.42	9.475	
3,600.00	3,542.75	3,523.01	3,522.81	15.79	76.46	8.056	927.41	1,030.61	808.98	719.26	89.72	9.017	
3,700.00	3,640.73	3,622.26	3,622.07	16.27	78.40	8.276	927.17	1,030.61	789.06	697.03	92.04	8.573	
3,800.00	3,738.72	3,721.45	3,721.25	16.74	80.34	8.522	926.67	1,030.61	769.00	674.65	94.35	8.151	
3,900.00	3,836.71	3,816.42	3,816.21	17.22	82.18	8.745	926.62	1,030.61	749.21	652.63	96.59	7.757	
4,000.00	3,934.69	3,914.41	3,914.19	17.70	84.09	8.983	926.62	1,030.61	729.48	630.61	98.87	7.378	
4,100.00	4,032.68	4,012.65	4,012.43	18.18	86.00	9.200	927.16	1,030.61	710.08	608.92	101.16	7.019	
4,200.00	4,130.67	4,111.35	4,111.13	18.66	87.91	9.477	927.01	1,030.61	690.29	586.83	103.46	6.672	
4,300.00	4,228.66	4,210.01	4,209.78	19.13	89.83	9.781	926.70	1,030.61	670.41	564.65	105.76	6.339	
4,400.00	4,326.64	4,306.39	4,306.14	19.61	91.70	10.080	926.62	1,030.61	650.68	542.66	108.02	6.024	
4,500.00	4,424.70	4,404.44	4,404.20	20.09	93.61	10.355	926.62	1,030.61	631.35	521.04	110.32	5.723	
4,600.00	4,523.47	4,503.39	4,503.14	20.52	95.53	10.467	927.45	1,030.61	616.56	503.95	112.61	5.475	
4,700.00	4,622.92	4,603.77	4,603.51	20.90	97.48	10.602	927.27	1,030.61	606.29	491.37	114.92	5.276	
4,800.00	4,722.78	4,704.54	4,704.28	21.23	99.44	10.697	926.84	1,030.61	601.01	483.78	117.22	5.127	
4,899.02	4,821.79	4,801.56	4,801.29	21.52	101.28	10.732	926.62	1,030.61	599.65	480.24	119.41	5.022 CC	
4,900.00	4,822.78	4,802.55	4,802.28	21.52	101.30	54.140	926.62	1,030.61	600.29	480.86	119.43	5.026	
5,000.00	4,922.78	4,902.55	4,902.28	21.80	103.18	54.140	926.62	1,030.61	600.29	478.66	121.63	4.935	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Sec 30 T24N R06W - Rincon 002 - Orig hole - Inc only surveys													Offset Site Error:	0.00 ft	
Survey Program:		275-INC-ONLY		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 ft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Distance Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
5,100.00	5,022.70	5,002.58	5,002.30	22.09	105.05	103.814	927.15	1,030.61	601.17	477.33	123.84	4.854	ES		
5,200.00	5,120.99	5,101.47	5,101.19	22.36	106.90	105.003	927.04	1,030.61	605.59	479.53	126.07	4.804			
5,300.00	5,214.71	5,195.67	5,195.39	22.61	108.67	107.000	926.77	1,030.61	615.58	487.29	128.29	4.798	SF		
5,400.00	5,301.02	5,280.81	5,280.52	22.84	110.21	109.081	926.62	1,030.61	633.35	502.93	130.43	4.856			
5,500.00	5,377.28	5,357.41	5,357.12	23.05	111.56	110.622	926.80	1,030.61	661.24	528.73	132.51	4.990			
5,600.00	5,441.19	5,421.83	5,421.53	23.26	112.69	110.850	926.62	1,030.61	700.60	566.09	134.51	5.209			
5,700.00	5,490.80	5,470.61	5,470.30	23.50	113.57	108.844	926.62	1,030.61	752.09	615.77	136.32	5.517			
5,800.00	5,524.60	5,504.41	5,504.10	23.86	114.19	103.975	926.62	1,030.61	814.70	676.85	137.84	5.910			
5,900.00	5,541.57	5,521.38	5,521.07	24.48	114.49	95.477	926.62	1,030.61	886.22	747.24	138.98	6.377			
6,000.00	5,544.50	5,524.31	5,524.00	25.44	114.55	90.535	926.62	1,030.61	960.83	821.06	139.76	6.875			
6,100.00	5,545.30	5,525.11	5,524.80	26.65	114.56	90.608	926.62	1,030.61	1,038.76	898.34	140.42	7.398			
6,200.00	5,546.10	5,525.91	5,525.60	28.03	114.58	90.682	926.62	1,030.61	1,120.20	979.23	140.97	7.946			
6,300.00	5,546.90	5,526.71	5,526.40	29.56	114.59	90.755	926.62	1,030.61	1,204.45	1,063.00	141.44	8.515			
6,400.00	5,547.71	5,527.51	5,527.21	31.18	114.61	90.829	926.62	1,030.61	1,290.94	1,149.10	141.84	9.101			
6,500.00	5,548.51	5,528.31	5,528.01	32.90	114.62	90.902	926.62	1,030.61	1,379.26	1,237.08	142.18	9.701			
6,600.00	5,549.31	5,529.12	5,528.81	34.69	114.63	90.975	926.62	1,030.61	1,469.08	1,326.61	142.46	10.312			
6,700.00	5,550.11	5,529.92	5,529.61	36.54	114.65	91.049	926.62	1,030.61	1,560.13	1,417.42	142.71	10.932			
6,800.00	5,550.91	5,530.72	5,530.41	38.44	114.66	91.122	926.62	1,030.61	1,652.22	1,509.29	142.93	11.559			
6,900.00	5,551.71	5,531.52	5,531.21	40.39	114.68	91.195	926.62	1,030.61	1,745.18	1,602.06	143.12	12.194			
7,000.00	5,552.51	5,532.32	5,532.01	42.38	114.69	91.269	926.62	1,030.61	1,838.88	1,695.59	143.29	12.833			
7,100.00	5,553.32	5,533.12	5,532.82	44.40	114.71	91.342	926.62	1,030.61	1,933.21	1,789.77	143.44	13.477			
7,200.00	5,554.12	5,533.92	5,533.62	46.44	114.72	91.415	926.62	1,030.61	2,028.09	1,884.51	143.58	14.125			
7,300.00	5,554.92	5,534.73	5,534.42	48.51	114.74	91.489	926.62	1,030.61	2,123.43	1,979.73	143.70	14.777			
7,400.00	5,555.72	5,535.53	5,535.22	50.61	114.75	91.562	926.62	1,030.61	2,219.18	2,075.37	143.81	15.431			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Coordinates are relative to: Bobby B 047H

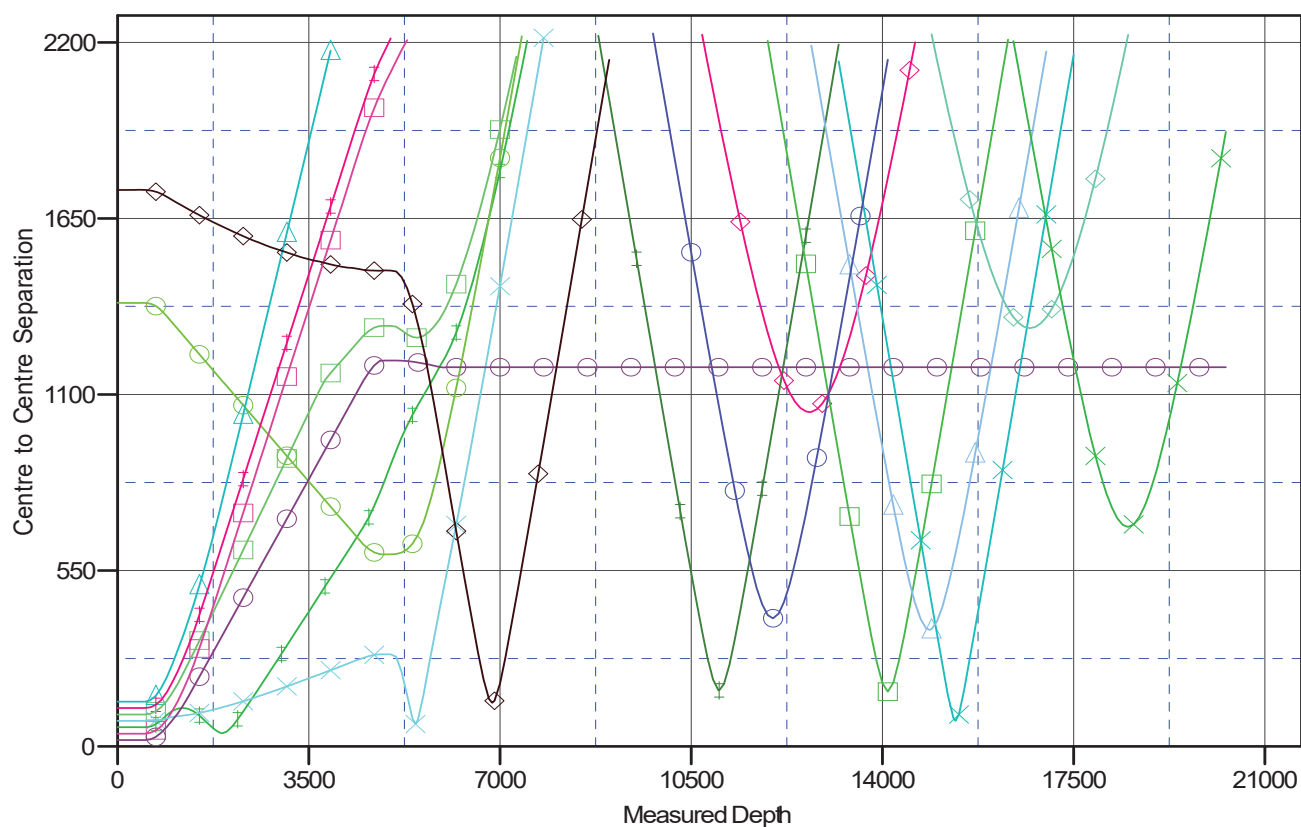
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Central Zone

Central Meridian is -106.25000000

Grid Convergence at Surface is: -0.746°

Ladder Plot



LEGEND

LybrookFed 005, Orig hole, hconlysurveyV0	BobbyB046H Orig hole rev0 V0	BobbyB042H Orig hole rev0 V0
Grass Federal 24 002, Orig hole, hconlysurveyV0	BobbyB044H Orig hole rev0 V0	BobbyB043H Orig hole rev0 V0
Rincon Largo Federal 24002, Orig hole, No surveyV0	Rincon 002, Orig hole, hconlysurveyV0	Byrd 001, Orig hole, No surveyV0
Grass Federal 24 001, Orig hole, hconlysurveyV0	BobbyB040H Orig hole rev0 V0	Pre Ongard 001, No survey, No surveyV0
Pre Ongard 001 (Grass Federal 24), Orig hole, hconlysurveyV0	BobbyB045H Orig hole rev0 V0	Rincon 001, Orig hole, hconlysurveyV0
Pre Ongard 001 (Reynolds Quarry 24), Orig hole, No surveyV0	BobbyB041H Orig hole rev0 V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 047H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Offset Depths are relative to Offset Datum

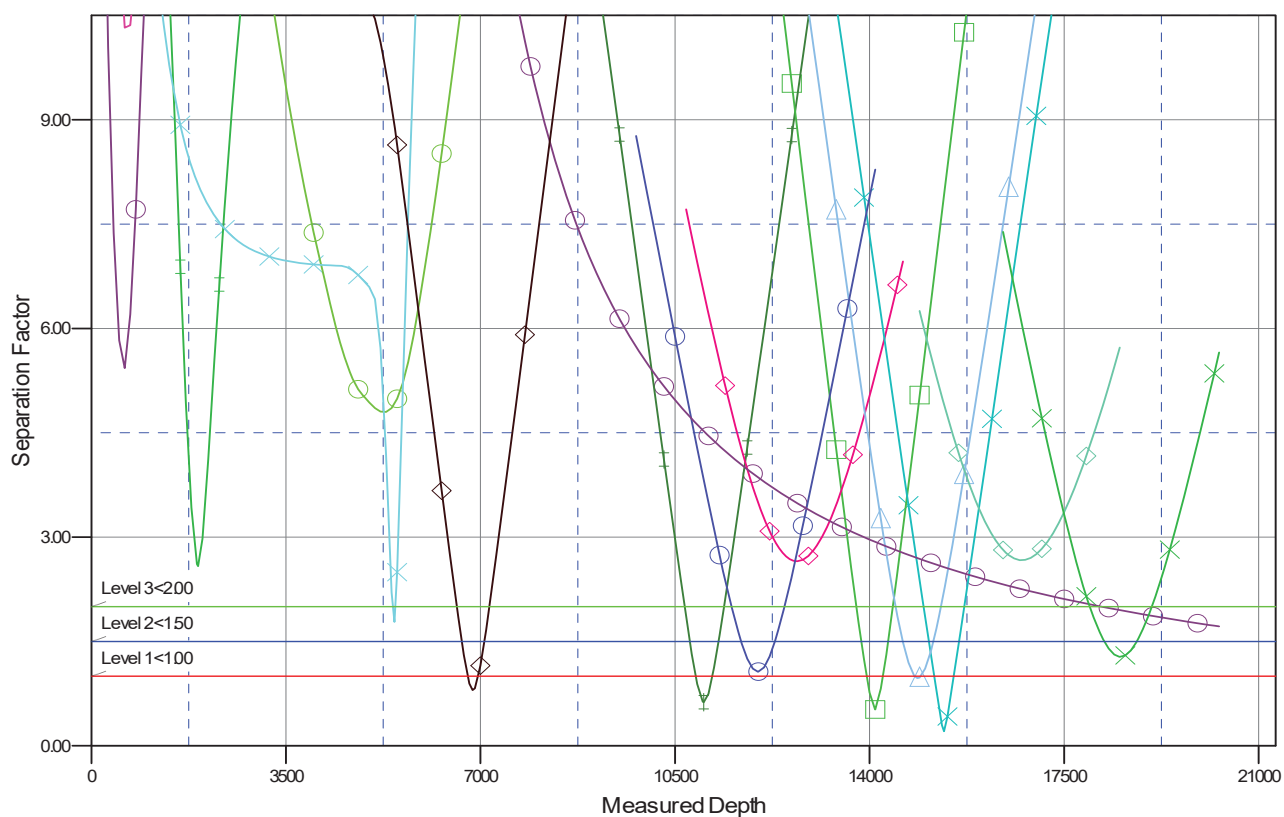
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B 047H

Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.746°

Separation Factor Plot



LEGEND

Lybrook Fed 005, Orig hole, hconly survey V0	Bobby B048H Orig hole rev0 V0	Bobby B042H Orig hole rev0 V0
Grace Federal 24 002, Orig hole, hconly survey V0	Bobby B044H Orig hole rev0 V0	Bobby B043H Orig hole rev0 V0
Rincon Largo Federal 24002, Orig hole, No survey V0	Rincon 002, Orig hole, hconly survey V0	Byrd 001, Orig hole, No survey V0
Grace Federal 24 001, Orig hole, hconly survey V0	Bobby B040H Orig hole rev0 V0	Pre Ongard 001, No survey, No survey V0
Pre Ongard 001 (Grace Federal 24), Orig hole, hconly survey V0	Bobby B045H Orig hole rev0 V0	Rincon 001, Orig hole, hconly survey V0
Pre Ongard 001 (Reynolds & Barney 24), Orig hole, No survey V0	Bobby B041H Orig hole rev0 V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Well: Bobby B 047H
Site: Sec 30 T24N R06W
Project: Rio Arriba County, New Mexico NAD83 NM C
Design: rev0
Rig:

Section Details										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000	0.00	
2	500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3"/100' build
3	883.85	11.52	43.420	881.27	27.92	26.42	3.00	43.420	0.42	Begin 11.52° tangent
4	4463.98	11.52	43.420	4389.34	547.05	517.68	0.00	0.000	8.28	Begin 3"/100' drop
5	4847.83	0.00	0.000	4770.61	574.97	544.10	3.00	180.000	8.71	Begin vertical hold
6	5047.83	0.00	0.000	4970.61	574.97	544.10	0.00	0.000	8.71	Begin 10"/100' build
7	5747.83	70.00	310.450	5509.01	819.56	257.22	10.00	310.450	384.96	
8	5897.83	85.00	310.450	5541.39	914.30	146.10	10.00	0.000	530.69	85° inc Begin 10"/100' build/turn
9	5955.75	89.54	314.050	5544.15	953.18	103.29	10.00	38.478	588.49	Begin 89.54° lateral
10	20288.42	89.54	314.050	5659.00	10918.16	-10197.75	0.00	0.000	14920.70	PBHL/TD @ 20288.42 MD 5659.00 TVD

DESIGN TARGET DETAILS										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
Bobby B 47H FTP 1928 FNL 2455 FEL	5539.00	837.09	223.14	1925404.88	1269247.46	36.28495400	-107.50938900			
Bobby B 47H LTP 2415 FSL 2569 FEL 330 ppd	5659.00	10918.16	-10197.75	1935485.92	1258826.59	36.31226300	-107.54519600			
Bobby B 47H vs=0	5539.00	543.93	526.18	1925111.71	1269550.50	36.28415967	-107.50834709			

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6665+23.5 @ 6688.50ft

Surface location:			
Northing	Easting	Latitude	Longitude
1924567.78	1269024.32	36.28264700	-107.51010800

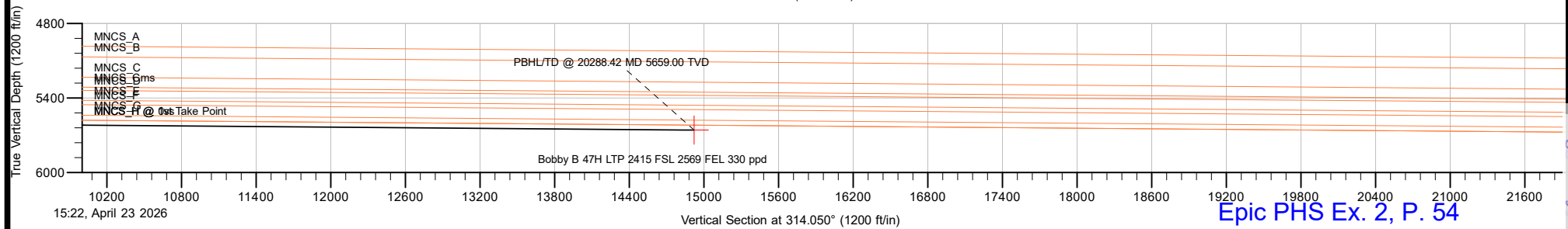
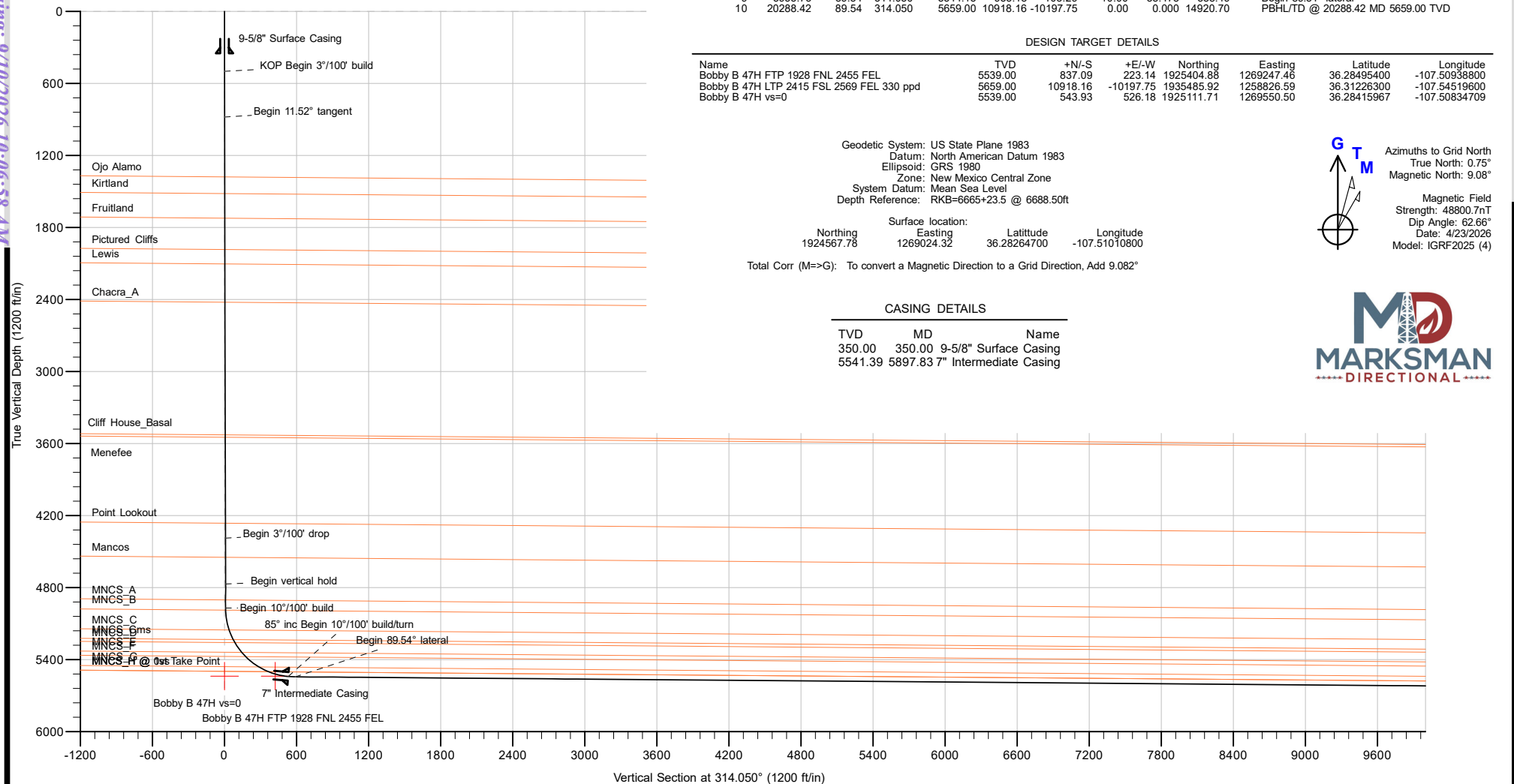
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.082°

G T M

Azimuths to Grid North
True North: 0.75°
Magnetic North: 9.08°

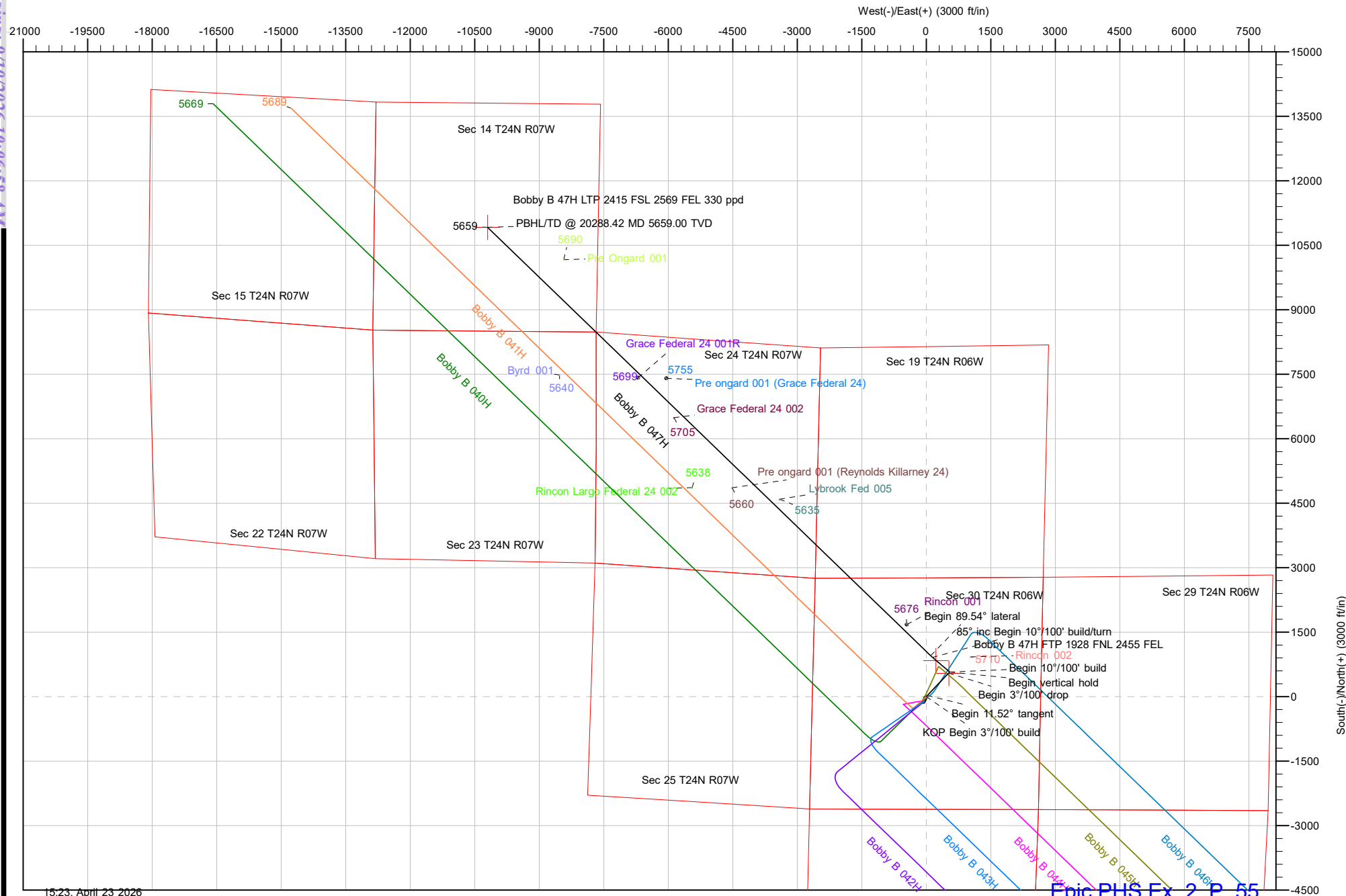
Magnetic Field
Strength: 48800.7nT
Dip Angle: 62.66°
Date: 4/23/2026
Model: IGRF2025 (4)

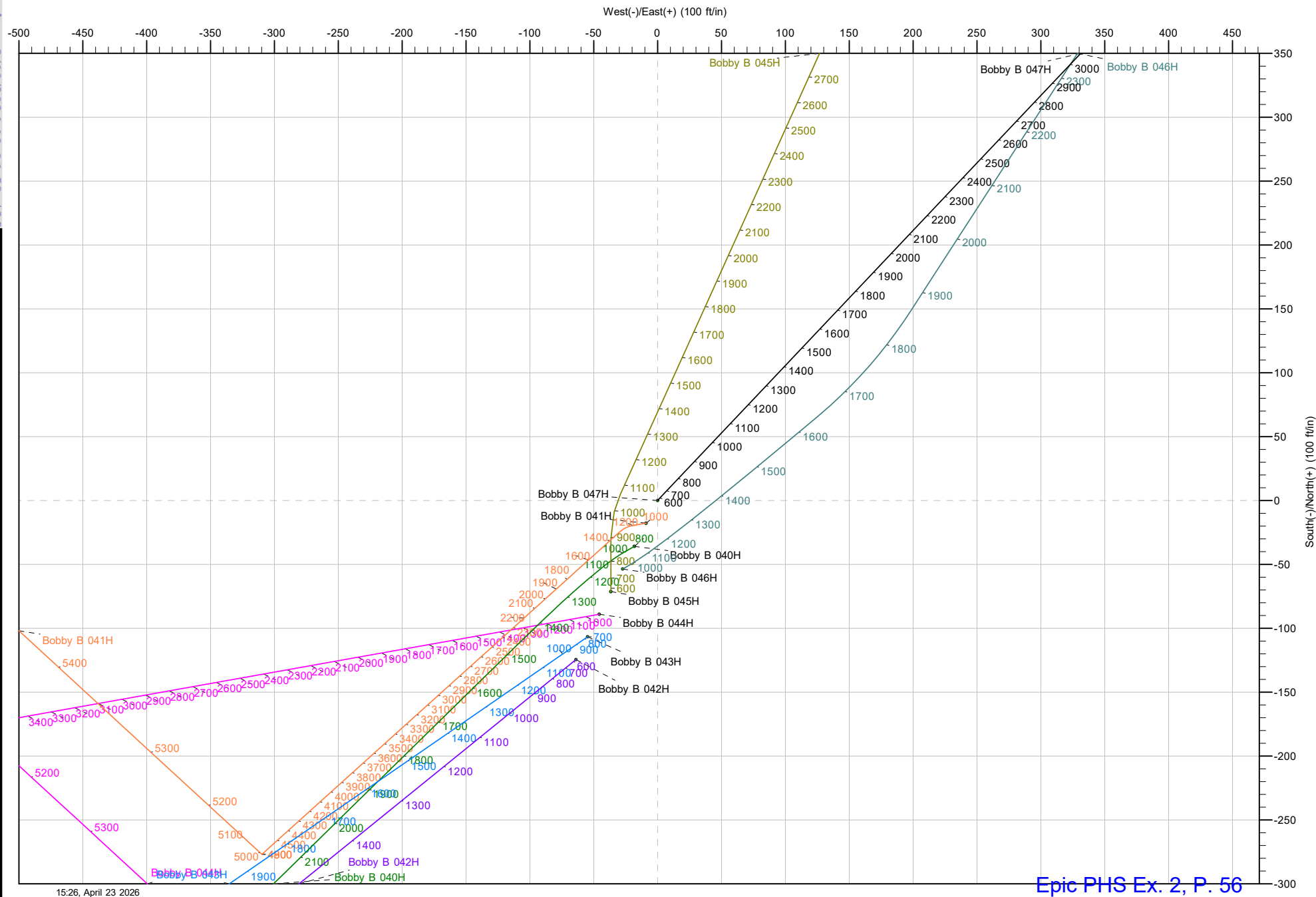
CASING DETAILS		
TVD	MD	Name
350.00	350.00	9-5/8" Surface Casing
5541.39	5897.83	7" Intermediate Casing





Well: Bobby B 047H
Site: Sec 30 T24N R06W
Project: Rio Arriba County, New Mexico NAD83 NM C
Design: rev0
Rig:







Planning Report

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Project	Rio Arriba County, New Mexico NAD83 NM C		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		Sec 30 T24N R06W			
Site Position:		Northing:	1,924,664.27 usft	Latitude:	36.28292000
From:	Lat/Long	Easting:	1,269,249.03 usft	Longitude:	-107.50935000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Bobby B 047H, Surf loc: 2620 FSL 2651 FWL Sec 30 T24N R06W					
Well Position	+N/-S	0.00 ft	Northing:	1,924,567.79 usft	Latitude:	36.28264700
	+E/-W	0.00 ft	Easting:	1,269,024.32 usft	Longitude:	-107.51010800
Position Uncertainty		0.00 ft	Wellhead Elevation:	6,665.00 ft	Ground Level:	6,665.00 ft
Grid Convergence:	-0.746 °					

Wellbore	Orig hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025 (4)	4/23/2026	8.337	62.659	48,800.74501317

Design	rev0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	314.050	

Plan Survey Tool Program	Date	4/23/2026			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,288.42	rev0 (Orig hole)	MWD	
				OWSG MWD - Standard	



Planning Report

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
883.85	11.52	43.420	881.27	27.92	26.42	3.00	3.00	0.00	43.420	
4,463.98	11.52	43.420	4,389.34	547.05	517.68	0.00	0.00	0.00	0.000	
4,847.83	0.00	0.000	4,770.61	574.97	544.10	3.00	-3.00	0.00	180.000	
5,047.83	0.00	0.000	4,970.61	574.97	544.10	0.00	0.00	0.00	0.000	
5,747.83	70.00	310.450	5,509.01	819.56	257.22	10.00	10.00	0.00	310.450	
5,897.83	85.00	310.450	5,541.39	914.30	146.10	10.00	10.00	0.00	0.000	
5,955.75	89.54	314.050	5,544.15	953.18	103.29	10.00	7.84	6.22	38.478	
20,288.42	89.54	314.050	5,659.00	10,918.16	-10,197.75	0.00	0.00	0.00	0.000	Bobby B 47H LTP 241

Planning Report



Database: DT-Oct0825v17
Company: Enduring Resources LLC
Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Sec 30 T24N R06W
Well: Bobby B 047H
Wellbore: Orig hole
Design: rev0

Local Co-ordinate Reference: Well Bobby B 047H
TVD Reference: RKB=6665+23.5 @ 6688.50ft
MD Reference: RKB=6665+23.5 @ 6688.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
600.00	3.00	43.420	599.95	1.90	1.80	0.03	3.00	3.00	0.00
700.00	6.00	43.420	699.63	7.60	7.19	0.12	3.00	3.00	0.00
800.00	9.00	43.420	798.77	17.08	16.16	0.26	3.00	3.00	0.00
883.85	11.52	43.420	881.27	27.92	26.42	0.42	3.00	3.00	0.00
Begin 11.52° tangent									
900.00	11.52	43.420	897.10	30.27	28.64	0.46	0.00	0.00	0.00
1,000.00	11.52	43.420	995.08	44.77	42.36	0.68	0.00	0.00	0.00
1,100.00	11.52	43.420	1,093.07	59.27	56.08	0.90	0.00	0.00	0.00
1,200.00	11.52	43.420	1,191.06	73.77	69.80	1.12	0.00	0.00	0.00
1,300.00	11.52	43.420	1,289.04	88.27	83.53	1.34	0.00	0.00	0.00
1,391.82	11.52	43.420	1,379.01	101.58	96.13	1.54	0.00	0.00	0.00
Ojo Alamo									
1,400.00	11.52	43.420	1,387.03	102.77	97.25	1.56	0.00	0.00	0.00
1,500.00	11.52	43.420	1,485.02	117.27	110.97	1.78	0.00	0.00	0.00
1,534.70	11.52	43.420	1,519.01	122.30	115.73	1.85	0.00	0.00	0.00
Kirtland									
1,600.00	11.52	43.420	1,583.01	131.77	124.69	2.00	0.00	0.00	0.00
1,700.00	11.52	43.420	1,680.99	146.27	138.41	2.21	0.00	0.00	0.00
1,743.91	11.52	43.420	1,724.02	152.63	144.44	2.31	0.00	0.00	0.00
Fruitland									
1,800.00	11.52	43.420	1,778.98	160.77	152.13	2.43	0.00	0.00	0.00
1,900.00	11.52	43.420	1,876.97	175.27	165.86	2.65	0.00	0.00	0.00
2,000.00	11.52	43.420	1,974.95	189.77	179.58	2.87	0.00	0.00	0.00
2,009.26	11.52	43.420	1,984.02	191.11	180.85	2.89	0.00	0.00	0.00
Pictured Cliffs									
2,100.00	11.52	43.420	2,072.94	204.27	193.30	3.09	0.00	0.00	0.00
2,131.72	11.52	43.420	2,104.03	208.87	197.65	3.16	0.00	0.00	0.00
Lewis									
2,200.00	11.52	43.420	2,170.93	218.77	207.02	3.31	0.00	0.00	0.00
2,300.00	11.52	43.420	2,268.91	233.27	220.74	3.53	0.00	0.00	0.00
2,400.00	11.52	43.420	2,366.90	247.77	234.46	3.75	0.00	0.00	0.00
2,458.30	11.52	43.420	2,424.03	256.22	242.46	3.88	0.00	0.00	0.00
Chacra_A									
2,500.00	11.52	43.420	2,464.89	262.27	248.19	3.97	0.00	0.00	0.00
2,600.00	11.52	43.420	2,562.88	276.77	261.91	4.19	0.00	0.00	0.00
2,700.00	11.52	43.420	2,660.86	291.27	275.63	4.41	0.00	0.00	0.00
2,800.00	11.52	43.420	2,758.85	305.77	289.35	4.63	0.00	0.00	0.00
2,900.00	11.52	43.420	2,856.84	320.27	303.07	4.85	0.00	0.00	0.00
3,000.00	11.52	43.420	2,954.82	334.77	316.79	5.07	0.00	0.00	0.00
3,100.00	11.52	43.420	3,052.81	349.27	330.52	5.29	0.00	0.00	0.00
3,200.00	11.52	43.420	3,150.80	363.77	344.24	5.51	0.00	0.00	0.00
3,300.00	11.52	43.420	3,248.79	378.27	357.96	5.73	0.00	0.00	0.00
3,400.00	11.52	43.420	3,346.77	392.77	371.68	5.95	0.00	0.00	0.00
3,500.00	11.52	43.420	3,444.76	407.27	385.40	6.17	0.00	0.00	0.00

Planning Report



Database: DT-Oct0825v17
Company: Enduring Resources LLC
Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Sec 30 T24N R06W
Well: Bobby B 047H
Wellbore: Orig hole
Design: rev0

Local Co-ordinate Reference: Well Bobby B 047H
TVD Reference: RKB=6665+23.5 @ 6688.50ft
MD Reference: RKB=6665+23.5 @ 6688.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,586.02	11.52	43.420	3,529.05	419.74	397.21	6.36	0.00	0.00	0.00	
Cliff House_Basal										
3,600.00	11.52	43.420	3,542.75	421.77	399.12	6.39	0.00	0.00	0.00	
3,606.43	11.52	43.420	3,549.05	422.70	400.01	6.40	0.00	0.00	0.00	
Menefee										
3,700.00	11.52	43.420	3,640.73	436.27	412.85	6.61	0.00	0.00	0.00	
3,800.00	11.52	43.420	3,738.72	450.77	426.57	6.83	0.00	0.00	0.00	
3,900.00	11.52	43.420	3,836.71	465.27	440.29	7.04	0.00	0.00	0.00	
4,000.00	11.52	43.420	3,934.69	479.77	454.01	7.26	0.00	0.00	0.00	
4,100.00	11.52	43.420	4,032.68	494.27	467.73	7.48	0.00	0.00	0.00	
4,200.00	11.52	43.420	4,130.67	508.77	481.45	7.70	0.00	0.00	0.00	
4,300.00	11.52	43.420	4,228.66	523.27	495.17	7.92	0.00	0.00	0.00	
4,336.14	11.52	43.420	4,264.06	528.51	500.13	8.00	0.00	0.00	0.00	
Point Lookout										
4,400.00	11.52	43.420	4,326.64	537.77	508.90	8.14	0.00	0.00	0.00	
4,463.98	11.52	43.420	4,389.34	547.05	517.68	8.28	0.00	0.00	0.00	
Begin 3°/100' drop										
4,500.00	10.44	43.420	4,424.70	552.03	522.39	8.36	3.00	-3.00	0.00	
4,600.00	7.44	43.420	4,523.47	563.31	533.06	8.53	3.00	-3.00	0.00	
4,625.79	6.66	43.420	4,549.07	565.61	535.24	8.56	3.00	-3.00	0.00	
Mancos										
4,700.00	4.44	43.420	4,622.92	570.82	540.17	8.64	3.00	-3.00	0.00	
4,800.00	1.44	43.420	4,722.78	574.53	543.69	8.70	3.00	-3.00	0.00	
4,847.83	0.00	0.000	4,770.61	574.97	544.10	8.71	3.00	-3.00	0.00	
Begin vertical hold										
4,900.00	0.00	0.000	4,822.78	574.97	544.10	8.71	0.00	0.00	0.00	
4,981.29	0.00	0.000	4,904.07	574.97	544.10	8.71	0.00	0.00	0.00	
MNCS_A										
5,000.00	0.00	0.000	4,922.78	574.97	544.10	8.71	0.00	0.00	0.00	
5,047.83	0.00	0.000	4,970.61	574.97	544.10	8.71	0.00	0.00	0.00	
Begin 10°/100' build										
5,050.00	0.22	310.450	4,972.78	574.97	544.10	8.71	10.00	10.00	0.00	
5,066.30	1.85	310.450	4,989.07	575.16	543.87	9.00	10.00	10.00	0.00	
MNCS_B										
5,100.00	5.22	310.450	5,022.70	576.51	542.29	11.07	10.00	10.00	0.00	
5,150.00	10.22	310.450	5,072.24	580.86	537.19	17.77	10.00	10.00	0.00	
5,200.00	15.22	310.450	5,120.99	588.00	528.81	28.75	10.00	10.00	0.00	
5,234.84	18.70	310.450	5,154.31	594.59	521.08	38.89	10.00	10.00	0.00	
MNCS_C										
5,250.00	20.22	310.450	5,168.61	597.87	517.24	43.93	10.00	10.00	0.00	
5,300.00	25.22	310.450	5,214.71	610.39	502.55	63.20	10.00	10.00	0.00	
5,322.17	27.43	310.450	5,234.59	616.77	495.07	73.01	10.00	10.00	0.00	
MNCS_Cms										
5,350.00	30.22	310.450	5,258.96	625.48	484.86	86.40	10.00	10.00	0.00	
5,350.85	30.30	310.450	5,259.70	625.75	484.53	86.83	10.00	10.00	0.00	
MNCS_D										
5,400.00	35.22	310.450	5,301.02	643.00	464.30	113.36	10.00	10.00	0.00	
5,449.47	40.16	310.450	5,340.15	662.62	441.29	143.54	10.00	10.00	0.00	
MNCS_E										
5,450.00	40.22	310.450	5,340.56	662.84	441.03	143.88	10.00	10.00	0.00	
5,497.35	44.95	310.450	5,375.41	683.63	416.66	175.85	10.00	10.00	0.00	
MNCS_F										



Planning Report

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,500.00	45.22	310.450	5,377.28	684.84	415.23	177.72	10.00	10.00	0.00	
5,550.00	50.22	310.450	5,410.91	708.83	387.09	214.63	10.00	10.00	0.00	
5,600.00	55.22	310.450	5,441.19	734.64	356.83	254.32	10.00	10.00	0.00	
5,636.98	58.91	310.450	5,461.29	754.77	333.21	285.29	10.00	10.00	0.00	
MNCS_G										
5,650.00	60.22	310.450	5,467.89	762.05	324.67	296.49	10.00	10.00	0.00	
5,700.00	65.22	310.450	5,490.80	790.87	290.86	340.83	10.00	10.00	0.00	
5,728.09	68.03	310.450	5,501.94	807.60	271.24	366.56	10.00	10.00	0.00	
MNCS_H @ 1st Take Point - MNCS_H @ 0vs										
5,747.83	70.00	310.450	5,509.01	819.56	257.22	384.96	10.00	10.00	0.00	
5,750.00	70.22	310.450	5,509.75	820.88	255.67	386.99	10.00	10.00	0.00	
5,800.00	75.22	310.450	5,524.60	851.84	219.35	434.62	10.00	10.00	0.00	
5,850.00	80.22	310.450	5,535.24	883.53	182.18	483.37	10.00	10.00	0.00	
5,897.83	85.00	310.450	5,541.39	914.30	146.10	530.69	10.00	10.00	0.00	
85° inc Begin 10°/100' build/turn - 7" Intermediate Casing										
5,900.00	85.17	310.585	5,541.57	915.70	144.45	532.85	10.00	7.83	6.23	
5,950.00	89.09	313.693	5,544.08	949.20	107.44	582.74	10.00	7.84	6.22	
5,955.75	89.54	314.050	5,544.15	953.18	103.29	588.49	10.00	7.85	6.20	
Begin 89.54° lateral										
6,000.00	89.54	314.050	5,544.50	983.95	71.49	632.74	0.00	0.00	0.00	
6,100.00	89.54	314.050	5,545.30	1,053.47	-0.38	732.74	0.00	0.00	0.00	
6,200.00	89.54	314.050	5,546.10	1,123.00	-72.25	832.73	0.00	0.00	0.00	
6,300.00	89.54	314.050	5,546.90	1,192.52	-144.12	932.73	0.00	0.00	0.00	
6,400.00	89.54	314.050	5,547.71	1,262.05	-215.99	1,032.73	0.00	0.00	0.00	
6,500.00	89.54	314.050	5,548.51	1,331.58	-287.86	1,132.72	0.00	0.00	0.00	
6,600.00	89.54	314.050	5,549.31	1,401.10	-359.74	1,232.72	0.00	0.00	0.00	
6,700.00	89.54	314.050	5,550.11	1,470.63	-431.61	1,332.72	0.00	0.00	0.00	
6,800.00	89.54	314.050	5,550.91	1,540.16	-503.48	1,432.72	0.00	0.00	0.00	
6,900.00	89.54	314.050	5,551.71	1,609.68	-575.35	1,532.71	0.00	0.00	0.00	
7,000.00	89.54	314.050	5,552.51	1,679.21	-647.22	1,632.71	0.00	0.00	0.00	
7,100.00	89.54	314.050	5,553.32	1,748.74	-719.09	1,732.71	0.00	0.00	0.00	
7,200.00	89.54	314.050	5,554.12	1,818.26	-790.96	1,832.70	0.00	0.00	0.00	
7,300.00	89.54	314.050	5,554.92	1,887.79	-862.83	1,932.70	0.00	0.00	0.00	
7,400.00	89.54	314.050	5,555.72	1,957.31	-934.70	2,032.70	0.00	0.00	0.00	
7,500.00	89.54	314.050	5,556.52	2,026.84	-1,006.57	2,132.69	0.00	0.00	0.00	
7,600.00	89.54	314.050	5,557.32	2,096.37	-1,078.45	2,232.69	0.00	0.00	0.00	
7,700.00	89.54	314.050	5,558.12	2,165.89	-1,150.32	2,332.69	0.00	0.00	0.00	
7,800.00	89.54	314.050	5,558.92	2,235.42	-1,222.19	2,432.68	0.00	0.00	0.00	
7,900.00	89.54	314.050	5,559.73	2,304.95	-1,294.06	2,532.68	0.00	0.00	0.00	
8,000.00	89.54	314.050	5,560.53	2,374.47	-1,365.93	2,632.68	0.00	0.00	0.00	
8,100.00	89.54	314.050	5,561.33	2,444.00	-1,437.80	2,732.67	0.00	0.00	0.00	
8,200.00	89.54	314.050	5,562.13	2,513.52	-1,509.67	2,832.67	0.00	0.00	0.00	
8,300.00	89.54	314.050	5,562.93	2,583.05	-1,581.54	2,932.67	0.00	0.00	0.00	
8,400.00	89.54	314.050	5,563.73	2,652.58	-1,653.41	3,032.66	0.00	0.00	0.00	
8,500.00	89.54	314.050	5,564.53	2,722.10	-1,725.29	3,132.66	0.00	0.00	0.00	
8,600.00	89.54	314.050	5,565.34	2,791.63	-1,797.16	3,232.66	0.00	0.00	0.00	
8,700.00	89.54	314.050	5,566.14	2,861.16	-1,869.03	3,332.65	0.00	0.00	0.00	
8,800.00	89.54	314.050	5,566.94	2,930.68	-1,940.90	3,432.65	0.00	0.00	0.00	
8,900.00	89.54	314.050	5,567.74	3,000.21	-2,012.77	3,532.65	0.00	0.00	0.00	
9,000.00	89.54	314.050	5,568.54	3,069.74	-2,084.64	3,632.64	0.00	0.00	0.00	
9,100.00	89.54	314.050	5,569.34	3,139.26	-2,156.51	3,732.64	0.00	0.00	0.00	
9,200.00	89.54	314.050	5,570.14	3,208.79	-2,228.38	3,832.64	0.00	0.00	0.00	
9,300.00	89.54	314.050	5,570.94	3,278.31	-2,300.25	3,932.63	0.00	0.00	0.00	



Planning Report

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	89.54	314.050	5,571.75	3,347.84	-2,372.13	4,032.63	0.00	0.00	0.00
9,500.00	89.54	314.050	5,572.55	3,417.37	-2,444.00	4,132.63	0.00	0.00	0.00
9,600.00	89.54	314.050	5,573.35	3,486.89	-2,515.87	4,232.63	0.00	0.00	0.00
9,700.00	89.54	314.050	5,574.15	3,556.42	-2,587.74	4,332.62	0.00	0.00	0.00
9,800.00	89.54	314.050	5,574.95	3,625.95	-2,659.61	4,432.62	0.00	0.00	0.00
9,900.00	89.54	314.050	5,575.75	3,695.47	-2,731.48	4,532.62	0.00	0.00	0.00
10,000.00	89.54	314.050	5,576.55	3,765.00	-2,803.35	4,632.61	0.00	0.00	0.00
10,100.00	89.54	314.050	5,577.36	3,834.52	-2,875.22	4,732.61	0.00	0.00	0.00
10,200.00	89.54	314.050	5,578.16	3,904.05	-2,947.09	4,832.61	0.00	0.00	0.00
10,300.00	89.54	314.050	5,578.96	3,973.58	-3,018.96	4,932.60	0.00	0.00	0.00
10,400.00	89.54	314.050	5,579.76	4,043.10	-3,090.84	5,032.60	0.00	0.00	0.00
10,500.00	89.54	314.050	5,580.56	4,112.63	-3,162.71	5,132.60	0.00	0.00	0.00
10,600.00	89.54	314.050	5,581.36	4,182.16	-3,234.58	5,232.59	0.00	0.00	0.00
10,700.00	89.54	314.050	5,582.16	4,251.68	-3,306.45	5,332.59	0.00	0.00	0.00
10,800.00	89.54	314.050	5,582.97	4,321.21	-3,378.32	5,432.59	0.00	0.00	0.00
10,900.00	89.54	314.050	5,583.77	4,390.74	-3,450.19	5,532.58	0.00	0.00	0.00
11,000.00	89.54	314.050	5,584.57	4,460.26	-3,522.06	5,632.58	0.00	0.00	0.00
11,100.00	89.54	314.050	5,585.37	4,529.79	-3,593.93	5,732.58	0.00	0.00	0.00
11,200.00	89.54	314.050	5,586.17	4,599.31	-3,665.80	5,832.57	0.00	0.00	0.00
11,300.00	89.54	314.050	5,586.97	4,668.84	-3,737.68	5,932.57	0.00	0.00	0.00
11,400.00	89.54	314.050	5,587.77	4,738.37	-3,809.55	6,032.57	0.00	0.00	0.00
11,500.00	89.54	314.050	5,588.57	4,807.89	-3,881.42	6,132.56	0.00	0.00	0.00
11,600.00	89.54	314.050	5,589.38	4,877.42	-3,953.29	6,232.56	0.00	0.00	0.00
11,700.00	89.54	314.050	5,590.18	4,946.95	-4,025.16	6,332.56	0.00	0.00	0.00
11,800.00	89.54	314.050	5,590.98	5,016.47	-4,097.03	6,432.55	0.00	0.00	0.00
11,900.00	89.54	314.050	5,591.78	5,086.00	-4,168.90	6,532.55	0.00	0.00	0.00
12,000.00	89.54	314.050	5,592.58	5,155.52	-4,240.77	6,632.55	0.00	0.00	0.00
12,100.00	89.54	314.050	5,593.38	5,225.05	-4,312.64	6,732.55	0.00	0.00	0.00
12,200.00	89.54	314.050	5,594.18	5,294.58	-4,384.52	6,832.54	0.00	0.00	0.00
12,300.00	89.54	314.050	5,594.99	5,364.10	-4,456.39	6,932.54	0.00	0.00	0.00
12,400.00	89.54	314.050	5,595.79	5,433.63	-4,528.26	7,032.54	0.00	0.00	0.00
12,500.00	89.54	314.050	5,596.59	5,503.16	-4,600.13	7,132.53	0.00	0.00	0.00
12,600.00	89.54	314.050	5,597.39	5,572.68	-4,672.00	7,232.53	0.00	0.00	0.00
12,700.00	89.54	314.050	5,598.19	5,642.21	-4,743.87	7,332.53	0.00	0.00	0.00
12,800.00	89.54	314.050	5,598.99	5,711.74	-4,815.74	7,432.52	0.00	0.00	0.00
12,900.00	89.54	314.050	5,599.79	5,781.26	-4,887.61	7,532.52	0.00	0.00	0.00
13,000.00	89.54	314.050	5,600.59	5,850.79	-4,959.48	7,632.52	0.00	0.00	0.00
13,100.00	89.54	314.050	5,601.40	5,920.31	-5,031.35	7,732.51	0.00	0.00	0.00
13,200.00	89.54	314.050	5,602.20	5,989.84	-5,103.23	7,832.51	0.00	0.00	0.00
13,300.00	89.54	314.050	5,603.00	6,059.37	-5,175.10	7,932.51	0.00	0.00	0.00
13,400.00	89.54	314.050	5,603.80	6,128.89	-5,246.97	8,032.50	0.00	0.00	0.00
13,500.00	89.54	314.050	5,604.60	6,198.42	-5,318.84	8,132.50	0.00	0.00	0.00
13,600.00	89.54	314.050	5,605.40	6,267.95	-5,390.71	8,232.50	0.00	0.00	0.00
13,700.00	89.54	314.050	5,606.20	6,337.47	-5,462.58	8,332.49	0.00	0.00	0.00
13,800.00	89.54	314.050	5,607.01	6,407.00	-5,534.45	8,432.49	0.00	0.00	0.00
13,900.00	89.54	314.050	5,607.81	6,476.52	-5,606.32	8,532.49	0.00	0.00	0.00
14,000.00	89.54	314.050	5,608.61	6,546.05	-5,678.19	8,632.48	0.00	0.00	0.00
14,100.00	89.54	314.050	5,609.41	6,615.58	-5,750.07	8,732.48	0.00	0.00	0.00
14,200.00	89.54	314.050	5,610.21	6,685.10	-5,821.94	8,832.48	0.00	0.00	0.00
14,300.00	89.54	314.050	5,611.01	6,754.63	-5,893.81	8,932.47	0.00	0.00	0.00
14,400.00	89.54	314.050	5,611.81	6,824.16	-5,965.68	9,032.47	0.00	0.00	0.00
14,500.00	89.54	314.050	5,612.61	6,893.68	-6,037.55	9,132.47	0.00	0.00	0.00
14,600.00	89.54	314.050	5,613.42	6,963.21	-6,109.42	9,232.46	0.00	0.00	0.00
14,700.00	89.54	314.050	5,614.22	7,032.74	-6,181.29	9,332.46	0.00	0.00	0.00

Planning Report



Database: DT-Oct0825v17
Company: Enduring Resources LLC
Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Sec 30 T24N R06W
Well: Bobby B 047H
Wellbore: Orig hole
Design: rev0

Local Co-ordinate Reference: Well Bobby B 047H
TVD Reference: RKB=6665+23.5 @ 6688.50ft
MD Reference: RKB=6665+23.5 @ 6688.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,800.00	89.54	314.050	5,615.02	7,102.26	-6,253.16	9,432.46	0.00	0.00	0.00
14,900.00	89.54	314.050	5,615.82	7,171.79	-6,325.03	9,532.46	0.00	0.00	0.00
15,000.00	89.54	314.050	5,616.62	7,241.31	-6,396.90	9,632.45	0.00	0.00	0.00
15,100.00	89.54	314.050	5,617.42	7,310.84	-6,468.78	9,732.45	0.00	0.00	0.00
15,200.00	89.54	314.050	5,618.22	7,380.37	-6,540.65	9,832.45	0.00	0.00	0.00
15,300.00	89.54	314.050	5,619.03	7,449.89	-6,612.52	9,932.44	0.00	0.00	0.00
15,400.00	89.54	314.050	5,619.83	7,519.42	-6,684.39	10,032.44	0.00	0.00	0.00
15,500.00	89.54	314.050	5,620.63	7,588.95	-6,756.26	10,132.44	0.00	0.00	0.00
15,600.00	89.54	314.050	5,621.43	7,658.47	-6,828.13	10,232.43	0.00	0.00	0.00
15,700.00	89.54	314.050	5,622.23	7,728.00	-6,900.00	10,332.43	0.00	0.00	0.00
15,800.00	89.54	314.050	5,623.03	7,797.52	-6,971.87	10,432.43	0.00	0.00	0.00
15,900.00	89.54	314.050	5,623.83	7,867.05	-7,043.74	10,532.42	0.00	0.00	0.00
16,000.00	89.54	314.050	5,624.64	7,936.58	-7,115.62	10,632.42	0.00	0.00	0.00
16,100.00	89.54	314.050	5,625.44	8,006.10	-7,187.49	10,732.42	0.00	0.00	0.00
16,200.00	89.54	314.050	5,626.24	8,075.63	-7,259.36	10,832.41	0.00	0.00	0.00
16,300.00	89.54	314.050	5,627.04	8,145.16	-7,331.23	10,932.41	0.00	0.00	0.00
16,400.00	89.54	314.050	5,627.84	8,214.68	-7,403.10	11,032.41	0.00	0.00	0.00
16,500.00	89.54	314.050	5,628.64	8,284.21	-7,474.97	11,132.40	0.00	0.00	0.00
16,600.00	89.54	314.050	5,629.44	8,353.74	-7,546.84	11,232.40	0.00	0.00	0.00
16,700.00	89.54	314.050	5,630.24	8,423.26	-7,618.71	11,332.40	0.00	0.00	0.00
16,800.00	89.54	314.050	5,631.05	8,492.79	-7,690.58	11,432.39	0.00	0.00	0.00
16,900.00	89.54	314.050	5,631.85	8,562.31	-7,762.46	11,532.39	0.00	0.00	0.00
17,000.00	89.54	314.050	5,632.65	8,631.84	-7,834.33	11,632.39	0.00	0.00	0.00
17,100.00	89.54	314.050	5,633.45	8,701.37	-7,906.20	11,732.38	0.00	0.00	0.00
17,200.00	89.54	314.050	5,634.25	8,770.89	-7,978.07	11,832.38	0.00	0.00	0.00
17,300.00	89.54	314.050	5,635.05	8,840.42	-8,049.94	11,932.38	0.00	0.00	0.00
17,400.00	89.54	314.050	5,635.85	8,909.95	-8,121.81	12,032.37	0.00	0.00	0.00
17,500.00	89.54	314.050	5,636.66	8,979.47	-8,193.68	12,132.37	0.00	0.00	0.00
17,600.00	89.54	314.050	5,637.46	9,049.00	-8,265.55	12,232.37	0.00	0.00	0.00
17,700.00	89.54	314.050	5,638.26	9,118.52	-8,337.42	12,332.37	0.00	0.00	0.00
17,800.00	89.54	314.050	5,639.06	9,188.05	-8,409.29	12,432.36	0.00	0.00	0.00
17,900.00	89.54	314.050	5,639.86	9,257.58	-8,481.17	12,532.36	0.00	0.00	0.00
18,000.00	89.54	314.050	5,640.66	9,327.10	-8,553.04	12,632.36	0.00	0.00	0.00
18,100.00	89.54	314.050	5,641.46	9,396.63	-8,624.91	12,732.35	0.00	0.00	0.00
18,200.00	89.54	314.050	5,642.26	9,466.16	-8,696.78	12,832.35	0.00	0.00	0.00
18,300.00	89.54	314.050	5,643.07	9,535.68	-8,768.65	12,932.35	0.00	0.00	0.00
18,400.00	89.54	314.050	5,643.87	9,605.21	-8,840.52	13,032.34	0.00	0.00	0.00
18,500.00	89.54	314.050	5,644.67	9,674.74	-8,912.39	13,132.34	0.00	0.00	0.00
18,600.00	89.54	314.050	5,645.47	9,744.26	-8,984.26	13,232.34	0.00	0.00	0.00
18,700.00	89.54	314.050	5,646.27	9,813.79	-9,056.13	13,332.33	0.00	0.00	0.00
18,800.00	89.54	314.050	5,647.07	9,883.31	-9,128.01	13,432.33	0.00	0.00	0.00
18,900.00	89.54	314.050	5,647.87	9,952.84	-9,199.88	13,532.33	0.00	0.00	0.00
19,000.00	89.54	314.050	5,648.68	10,022.37	-9,271.75	13,632.32	0.00	0.00	0.00
19,100.00	89.54	314.050	5,649.48	10,091.89	-9,343.62	13,732.32	0.00	0.00	0.00
19,200.00	89.54	314.050	5,650.28	10,161.42	-9,415.49	13,832.32	0.00	0.00	0.00
19,300.00	89.54	314.050	5,651.08	10,230.95	-9,487.36	13,932.31	0.00	0.00	0.00
19,400.00	89.54	314.050	5,651.88	10,300.47	-9,559.23	14,032.31	0.00	0.00	0.00
19,500.00	89.54	314.050	5,652.68	10,370.00	-9,631.10	14,132.31	0.00	0.00	0.00
19,600.00	89.54	314.050	5,653.48	10,439.52	-9,702.97	14,232.30	0.00	0.00	0.00
19,700.00	89.54	314.050	5,654.28	10,509.05	-9,774.84	14,332.30	0.00	0.00	0.00
19,800.00	89.54	314.050	5,655.09	10,578.58	-9,846.72	14,432.30	0.00	0.00	0.00
19,900.00	89.54	314.050	5,655.89	10,648.10	-9,918.59	14,532.29	0.00	0.00	0.00
20,000.00	89.54	314.050	5,656.69	10,717.63	-9,990.46	14,632.29	0.00	0.00	0.00
20,100.00	89.54	314.050	5,657.49	10,787.16	-10,062.33	14,732.29	0.00	0.00	0.00

Planning Report



Database: DT-Oct0825v17
Company: Enduring Resources LLC
Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Sec 30 T24N R06W
Well: Bobby B 047H
Wellbore: Orig hole
Design: rev0

Local Co-ordinate Reference: Well Bobby B 047H
TVD Reference: RKB=6665+23.5 @ 6688.50ft
MD Reference: RKB=6665+23.5 @ 6688.50ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
20,200.00	89.54	314.050	5,658.29	10,856.68	-10,134.20	14,832.29	0.00	0.00	0.00
20,288.42	89.54	314.050	5,659.00	10,918.16	-10,197.75	14,920.70	0.00	0.00	0.00
PBHL/TD @ 20288.42 MD 5659.00 TVD									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4
5,897.83	5,541.39	7" Intermediate Casing	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,391.82	1,379.01	Ojo Alamo		0.460	314.050
1,534.70	1,519.01	Kirtland		0.460	314.050
1,743.91	1,724.02	Fruitland		0.460	314.050
2,009.26	1,984.02	Pictured Cliffs		0.460	314.050
2,131.72	2,104.03	Lewis		0.460	314.050
2,458.30	2,424.03	Chacra_A		0.460	314.050
3,586.02	3,529.05	Cliff House_Basal		0.460	314.050
3,606.43	3,549.05	Menefee		0.460	314.050
4,336.14	4,264.06	Point Lookout		0.460	314.050
4,625.79	4,549.07	Mancos		0.460	314.050
4,981.29	4,904.07	MNCS_A		0.460	314.050
5,066.30	4,989.07	MNCS_B		0.460	314.050
5,234.84	5,154.31	MNCS_C		0.460	314.050
5,322.17	5,234.59	MNCS_Cms		0.460	314.050
5,350.85	5,259.70	MNCS_D		0.460	314.050
5,449.47	5,340.15	MNCS_E		0.460	314.050
5,497.35	5,375.41	MNCS_F		0.460	314.050
5,636.98	5,461.29	MNCS_G		0.460	314.050
5,728.09	5,501.94	MNCS_H @ 1st Take Point		0.460	314.050
5,728.09	5,501.94	MNCS_H @ 0vs		0.460	314.050



Planning Report

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
500.00	500.00	0.00	0.00	KOP Begin 3°/100' build	
883.85	881.27	27.92	26.42	Begin 11.52° tangent	
4,463.98	4,389.34	547.05	517.68	Begin 3°/100' drop	
4,847.83	4,770.61	574.97	544.10	Begin vertical hold	
5,047.83	4,970.61	574.97	544.10	Begin 10°/100' build	
5,747.83	5,509.01	819.56	257.22		
5,897.83	5,541.39	914.30	146.10	85° inc Begin 10°/100' build/turn	
5,955.75	5,544.15	953.18	103.29	Begin 89.54° lateral	
20,288.42	5,659.00	10,918.16	-10,197.75	PBHL/TD @ 20288.42 MD 5659.00 TVD	



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Project	Rio Arriba County, New Mexico NAD83 NM C		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		Sec 30 T24N R06W			
Site Position:		Northing:	1,924,664.27 usft	Latitude:	36.28292000
From:	Lat/Long	Easting:	1,269,249.03 usft	Longitude:	-107.50935000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Bobby B 047H, Surf loc: 2620 FSL 2651 FWL Sec 30 T24N R06W					
Well Position	+N/-S	0.00 ft	Northing:	1,924,567.79 usft	Latitude:	36.28264700
	+E/-W	0.00 ft	Easting:	1,269,024.32 usft	Longitude:	-107.51010800
Position Uncertainty		0.00 ft	Wellhead Elevation:	6,665.00 ft	Ground Level:	6,665.00 ft
Grid Convergence:	-0.746 °					

Wellbore	Orig hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025 (4)	4/23/2026	8.337	62.659	48,800.74501317

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	314.050

Plan Survey Tool Program	Date	4/23/2026		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,288.42 rev0 (Orig hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
883.85	11.52	43.420	881.27	27.92	26.42	3.00	3.00	0.00	43.420	
4,463.98	11.52	43.420	4,389.34	547.05	517.68	0.00	0.00	0.00	0.000	
4,847.83	0.00	0.000	4,770.61	574.97	544.10	3.00	-3.00	0.00	180.000	
5,047.83	0.00	0.000	4,970.61	574.97	544.10	0.00	0.00	0.00	0.000	
5,747.83	70.00	310.450	5,509.01	819.56	257.22	10.00	10.00	0.00	310.450	
5,897.83	85.00	310.450	5,541.39	914.30	146.10	10.00	10.00	0.00	0.000	
5,955.75	89.54	314.050	5,544.15	953.18	103.29	10.00	7.84	6.22	38.478	
20,288.42	89.54	314.050	5,659.00	10,918.16	-10,197.75	0.00	0.00	0.00	0.000	Bobby B 47H LTP 241



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
100.00	0.00	0.000	100.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
200.00	0.00	0.000	200.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
300.00	0.00	0.000	300.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
350.00	0.00	0.000	350.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
500.00	0.00	0.000	500.00	0.00	0.00	1,924,567.79	1,269,024.32	36.28264700	-107.51010800
KOP Begin 3°/100' build									
600.00	3.00	43.420	599.95	1.90	1.80	1,924,569.69	1,269,026.12	36.28265229	-107.51010198
700.00	6.00	43.420	699.63	7.60	7.19	1,924,575.39	1,269,031.51	36.28266813	-107.51008394
800.00	9.00	43.420	798.77	17.08	16.16	1,924,584.87	1,269,040.48	36.28269448	-107.51005393
883.85	11.52	43.420	881.27	27.92	26.42	1,924,595.71	1,269,050.74	36.28272464	-107.51001960
Begin 11.52° tangent									
900.00	11.52	43.420	897.10	30.27	28.64	1,924,598.05	1,269,052.96	36.28273115	-107.51001219
1,000.00	11.52	43.420	995.08	44.77	42.36	1,924,612.55	1,269,066.68	36.28277146	-107.50996628
1,100.00	11.52	43.420	1,093.07	59.27	56.08	1,924,627.05	1,269,080.40	36.28281177	-107.50992037
1,200.00	11.52	43.420	1,191.06	73.77	69.80	1,924,641.55	1,269,094.12	36.28285209	-107.50987447
1,300.00	11.52	43.420	1,289.04	88.27	83.53	1,924,656.05	1,269,107.85	36.28289240	-107.50982856
1,391.82	11.52	43.420	1,379.01	101.58	96.13	1,924,669.37	1,269,120.44	36.28292942	-107.50978641
Ojo Alamo									
1,400.00	11.52	43.420	1,387.03	102.77	97.25	1,924,670.55	1,269,121.57	36.28293272	-107.50978266
1,500.00	11.52	43.420	1,485.02	117.27	110.97	1,924,685.05	1,269,135.29	36.28297303	-107.50973675
1,534.70	11.52	43.420	1,519.01	122.30	115.73	1,924,690.08	1,269,140.05	36.28298702	-107.50972082
Kirtland									
1,600.00	11.52	43.420	1,583.01	131.77	124.69	1,924,699.55	1,269,149.01	36.28301334	-107.50969084
1,700.00	11.52	43.420	1,680.99	146.27	138.41	1,924,714.05	1,269,162.73	36.28305366	-107.50964494
1,743.91	11.52	43.420	1,724.02	152.63	144.44	1,924,720.42	1,269,168.76	36.28307136	-107.50962478
Fruitland									
1,800.00	11.52	43.420	1,778.98	160.77	152.13	1,924,728.55	1,269,176.45	36.28309397	-107.50959903
1,900.00	11.52	43.420	1,876.97	175.27	165.86	1,924,743.05	1,269,190.17	36.28313429	-107.50955312
2,000.00	11.52	43.420	1,974.95	189.77	179.58	1,924,757.55	1,269,203.90	36.28317460	-107.50950722
2,009.26	11.52	43.420	1,984.02	191.11	180.85	1,924,758.90	1,269,205.17	36.28317833	-107.50950297
Pictured Cliffs									
2,100.00	11.52	43.420	2,072.94	204.27	193.30	1,924,772.05	1,269,217.62	36.28321491	-107.50946131
2,131.72	11.52	43.420	2,104.03	208.87	197.65	1,924,776.65	1,269,221.97	36.28322770	-107.50944675
Lewis									
2,200.00	11.52	43.420	2,170.93	218.77	207.02	1,924,786.55	1,269,231.34	36.28325523	-107.50941540
2,300.00	11.52	43.420	2,268.91	233.27	220.74	1,924,801.05	1,269,245.06	36.28329554	-107.50936950
2,400.00	11.52	43.420	2,366.90	247.77	234.46	1,924,815.55	1,269,258.78	36.28333586	-107.50932359
2,458.30	11.52	43.420	2,424.03	256.22	242.46	1,924,824.01	1,269,266.78	36.28335936	-107.50929683
Chacra_A									
2,500.00	11.52	43.420	2,464.89	262.27	248.19	1,924,830.05	1,269,272.50	36.28337617	-107.50927768
2,600.00	11.52	43.420	2,562.88	276.77	261.91	1,924,844.55	1,269,286.23	36.28341648	-107.50923178
2,700.00	11.52	43.420	2,660.86	291.27	275.63	1,924,859.05	1,269,299.95	36.28345680	-107.50918587
2,800.00	11.52	43.420	2,758.85	305.77	289.35	1,924,873.55	1,269,313.67	36.28349711	-107.50913996
2,900.00	11.52	43.420	2,856.84	320.27	303.07	1,924,888.05	1,269,327.39	36.28353743	-107.50909406
3,000.00	11.52	43.420	2,954.82	334.77	316.79	1,924,902.55	1,269,341.11	36.28357774	-107.50904815
3,100.00	11.52	43.420	3,052.81	349.27	330.52	1,924,917.05	1,269,354.83	36.28361805	-107.50900224
3,200.00	11.52	43.420	3,150.80	363.77	344.24	1,924,931.55	1,269,368.56	36.28365837	-107.50895634
3,300.00	11.52	43.420	3,248.79	378.27	357.96	1,924,946.05	1,269,382.28	36.28369868	-107.50891043
3,400.00	11.52	43.420	3,346.77	392.77	371.68	1,924,960.56	1,269,396.00	36.28373899	-107.50886452
3,500.00	11.52	43.420	3,444.76	407.27	385.40	1,924,975.06	1,269,409.72	36.28377931	-107.50881861



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,586.02	11.52	43.420	3,529.05	419.74	397.21	1,924,987.53	1,269,421.52	36.28381399	-107.50877912	
Cliff House_Basal										
3,600.00	11.52	43.420	3,542.75	421.77	399.12	1,924,989.56	1,269,423.44	36.28381962	-107.50877271	
3,606.43	11.52	43.420	3,549.05	422.70	400.01	1,924,990.49	1,269,424.32	36.28382222	-107.50876975	
Menefee										
3,700.00	11.52	43.420	3,640.73	436.27	412.85	1,925,004.06	1,269,437.16	36.28385994	-107.50872680	
3,800.00	11.52	43.420	3,738.72	450.77	426.57	1,925,018.56	1,269,450.88	36.28390025	-107.50868089	
3,900.00	11.52	43.420	3,836.71	465.27	440.29	1,925,033.06	1,269,464.61	36.28394056	-107.50863499	
4,000.00	11.52	43.420	3,934.69	479.77	454.01	1,925,047.56	1,269,478.33	36.28398088	-107.50858908	
4,100.00	11.52	43.420	4,032.68	494.27	467.73	1,925,062.06	1,269,492.05	36.28402119	-107.50854317	
4,200.00	11.52	43.420	4,130.67	508.77	481.45	1,925,076.56	1,269,505.77	36.28406150	-107.50849726	
4,300.00	11.52	43.420	4,228.66	523.27	495.17	1,925,091.06	1,269,519.49	36.28410182	-107.50845136	
4,336.14	11.52	43.420	4,264.06	528.51	500.13	1,925,096.30	1,269,524.45	36.28411639	-107.50843477	
Point Lookout										
4,400.00	11.52	43.420	4,326.64	537.77	508.90	1,925,105.56	1,269,533.21	36.28414213	-107.50840545	
4,463.98	11.52	43.420	4,389.34	547.05	517.68	1,925,114.83	1,269,541.99	36.28416793	-107.50837607	
Begin 3°/100' drop										
4,500.00	10.44	43.420	4,424.70	552.03	522.39	1,925,119.81	1,269,546.71	36.28418177	-107.50836031	
4,600.00	7.44	43.420	4,523.47	563.31	533.06	1,925,131.09	1,269,557.38	36.28421313	-107.50832459	
4,625.79	6.66	43.420	4,549.07	565.61	535.24	1,925,133.39	1,269,559.56	36.28421952	-107.50831732	
Mancos										
4,700.00	4.44	43.420	4,622.92	570.82	540.17	1,925,138.60	1,269,564.49	36.28423401	-107.50830082	
4,800.00	1.44	43.420	4,722.78	574.53	543.69	1,925,142.32	1,269,568.01	36.28424435	-107.50828905	
4,847.83	0.00	0.000	4,770.61	574.97	544.10	1,925,142.76	1,269,568.42	36.28424556	-107.50828767	
Begin vertical hold										
4,900.00	0.00	0.000	4,822.78	574.97	544.10	1,925,142.76	1,269,568.42	36.28424556	-107.50828767	
4,981.29	0.00	0.000	4,904.07	574.97	544.10	1,925,142.76	1,269,568.42	36.28424556	-107.50828767	
MNCS_A										
5,000.00	0.00	0.000	4,922.78	574.97	544.10	1,925,142.76	1,269,568.42	36.28424556	-107.50828767	
5,047.83	0.00	0.000	4,970.61	574.97	544.10	1,925,142.76	1,269,568.42	36.28424556	-107.50828767	
Begin 10°/100' build										
5,050.00	0.22	310.450	4,972.78	574.97	544.10	1,925,142.76	1,269,568.41	36.28424557	-107.50828768	
5,066.30	1.85	310.450	4,989.07	575.16	543.87	1,925,142.95	1,269,568.19	36.28424608	-107.50828844	
MNCS_B										
5,100.00	5.22	310.450	5,022.70	576.51	542.29	1,925,144.30	1,269,566.61	36.28424972	-107.50829386	
5,150.00	10.22	310.450	5,072.24	580.86	537.19	1,925,148.65	1,269,561.50	36.28426150	-107.50831138	
5,200.00	15.22	310.450	5,120.99	588.00	528.81	1,925,155.79	1,269,553.13	36.28428081	-107.50834010	
5,234.84	18.70	310.450	5,154.31	594.59	521.08	1,925,162.38	1,269,545.40	36.28429863	-107.50836662	
MNCS_C										
5,250.00	20.22	310.450	5,168.61	597.87	517.24	1,925,165.66	1,269,541.56	36.28430750	-107.50837980	
5,300.00	25.22	310.450	5,214.71	610.39	502.55	1,925,178.18	1,269,526.87	36.28434137	-107.50843018	
5,322.17	27.43	310.450	5,234.59	616.77	495.07	1,925,184.56	1,269,519.39	36.28435862	-107.50845584	
MNCS_Cms										
5,350.00	30.22	310.450	5,258.96	625.48	484.86	1,925,193.26	1,269,509.18	36.28438216	-107.50849085	
5,350.85	30.30	310.450	5,259.70	625.75	484.53	1,925,193.54	1,269,508.85	36.28438291	-107.50849197	
MNCS_D										
5,400.00	35.22	310.450	5,301.02	643.00	464.30	1,925,210.79	1,269,488.62	36.28442956	-107.50856137	
5,449.47	40.16	310.450	5,340.15	662.62	441.29	1,925,230.41	1,269,465.61	36.28448262	-107.50864028	
MNCS_E										
5,450.00	40.22	310.450	5,340.56	662.84	441.03	1,925,230.63	1,269,465.35	36.28448322	-107.50864118	
5,497.35	44.95	310.450	5,375.41	683.63	416.66	1,925,251.41	1,269,440.97	36.28453942	-107.50872478	
MNCS_F										
5,500.00	45.22	310.450	5,377.28	684.84	415.23	1,925,252.63	1,269,439.55	36.28454271	-107.50872968	



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,550.00	50.22	310.450	5,410.91	708.83	387.09	1,925,276.62	1,269,411.41	36.28460760	-107.50882619	
5,600.00	55.22	310.450	5,441.19	734.64	356.83	1,925,302.42	1,269,381.14	36.28467738	-107.50893000	
5,636.98	58.91	310.450	5,461.29	754.77	333.21	1,925,322.55	1,269,357.53	36.28473183	-107.50901099	
MNCS_G										
5,650.00	60.22	310.450	5,467.89	762.05	324.67	1,925,329.84	1,269,348.99	36.28475153	-107.50904029	
5,700.00	65.22	310.450	5,490.80	790.87	290.86	1,925,358.66	1,269,315.18	36.28482948	-107.50915624	
5,728.09	68.03	310.450	5,501.94	807.60	271.24	1,925,375.39	1,269,295.56	36.28487472	-107.50922353	
MNCS_H @ 1st Take Point - MNCS_H @ 0vs										
5,747.83	70.00	310.450	5,509.01	819.56	257.22	1,925,387.34	1,269,281.54	36.28490706	-107.50927164	
5,750.00	70.22	310.450	5,509.75	820.88	255.67	1,925,388.67	1,269,279.99	36.28491063	-107.50927696	
5,800.00	75.22	310.450	5,524.60	851.84	219.35	1,925,419.63	1,269,243.67	36.28499438	-107.50940153	
5,850.00	80.22	310.450	5,535.24	883.53	182.18	1,925,451.32	1,269,206.50	36.28508008	-107.50952900	
5,897.83	85.00	310.450	5,541.39	914.30	146.10	1,925,482.08	1,269,170.42	36.28516328	-107.50965277	
85° inc Begin 10°/100' build/turn - 7" Intermediate Casing										
5,900.00	85.17	310.585	5,541.57	915.70	144.45	1,925,483.49	1,269,168.77	36.28516708	-107.50965841	
5,950.00	89.09	313.693	5,544.08	949.20	107.44	1,925,516.98	1,269,131.76	36.28525775	-107.50978545	
5,955.75	89.54	314.050	5,544.15	953.18	103.29	1,925,520.97	1,269,127.61	36.28526855	-107.50979969	
Begin 89.54° lateral										
6,000.00	89.54	314.050	5,544.50	983.95	71.49	1,925,551.73	1,269,095.81	36.28535190	-107.50990893	
6,100.00	89.54	314.050	5,545.30	1,053.47	-0.38	1,925,621.26	1,269,023.94	36.28554028	-107.51015581	
6,200.00	89.54	314.050	5,546.10	1,123.00	-72.25	1,925,690.78	1,268,952.07	36.28572866	-107.51040269	
6,300.00	89.54	314.050	5,546.90	1,192.52	-144.12	1,925,760.31	1,268,880.20	36.28591704	-107.51064957	
6,400.00	89.54	314.050	5,547.71	1,262.05	-215.99	1,925,829.84	1,268,808.33	36.28610542	-107.51089646	
6,500.00	89.54	314.050	5,548.51	1,331.58	-287.86	1,925,899.36	1,268,736.45	36.28629380	-107.51114334	
6,600.00	89.54	314.050	5,549.31	1,401.10	-359.74	1,925,968.89	1,268,664.58	36.28648218	-107.51139022	
6,700.00	89.54	314.050	5,550.11	1,470.63	-431.61	1,926,038.42	1,268,592.71	36.28667055	-107.51163711	
6,800.00	89.54	314.050	5,550.91	1,540.16	-503.48	1,926,107.94	1,268,520.84	36.28685893	-107.51188400	
6,900.00	89.54	314.050	5,551.71	1,609.68	-575.35	1,926,177.47	1,268,448.97	36.28704731	-107.51213088	
7,000.00	89.54	314.050	5,552.51	1,679.21	-647.22	1,926,246.99	1,268,377.10	36.28723568	-107.51237777	
7,100.00	89.54	314.050	5,553.32	1,748.74	-719.09	1,926,316.52	1,268,305.23	36.28742406	-107.51262466	
7,200.00	89.54	314.050	5,554.12	1,818.26	-790.96	1,926,386.05	1,268,233.36	36.28761243	-107.51287156	
7,300.00	89.54	314.050	5,554.92	1,887.79	-862.83	1,926,455.57	1,268,161.49	36.28780080	-107.51311845	
7,400.00	89.54	314.050	5,555.72	1,957.31	-934.70	1,926,525.10	1,268,089.62	36.28798918	-107.51336534	
7,500.00	89.54	314.050	5,556.52	2,026.84	-1,006.57	1,926,594.62	1,268,017.75	36.28817755	-107.51361224	
7,600.00	89.54	314.050	5,557.32	2,096.37	-1,078.45	1,926,664.15	1,267,945.87	36.28836592	-107.51385913	
7,700.00	89.54	314.050	5,558.12	2,165.89	-1,150.32	1,926,733.68	1,267,874.00	36.28855429	-107.51410603	
7,800.00	89.54	314.050	5,558.92	2,235.42	-1,222.19	1,926,803.20	1,267,802.13	36.28874267	-107.51435293	
7,900.00	89.54	314.050	5,559.73	2,304.95	-1,294.06	1,926,872.73	1,267,730.26	36.28893104	-107.51459983	
8,000.00	89.54	314.050	5,560.53	2,374.47	-1,365.93	1,926,942.26	1,267,658.39	36.28911941	-107.51484673	
8,100.00	89.54	314.050	5,561.33	2,444.00	-1,437.80	1,927,011.78	1,267,586.52	36.28930778	-107.51509363	
8,200.00	89.54	314.050	5,562.13	2,513.52	-1,509.67	1,927,081.31	1,267,514.65	36.28949614	-107.51534054	
8,300.00	89.54	314.050	5,562.93	2,583.05	-1,581.54	1,927,150.83	1,267,442.78	36.28968451	-107.51558744	
8,400.00	89.54	314.050	5,563.73	2,652.58	-1,653.41	1,927,220.36	1,267,370.91	36.28987288	-107.51583435	
8,500.00	89.54	314.050	5,564.53	2,722.10	-1,725.29	1,927,289.89	1,267,299.04	36.29006125	-107.51608125	
8,600.00	89.54	314.050	5,565.34	2,791.63	-1,797.16	1,927,359.41	1,267,227.17	36.29024962	-107.51632816	
8,700.00	89.54	314.050	5,566.14	2,861.16	-1,869.03	1,927,428.94	1,267,155.29	36.29043798	-107.51657507	
8,800.00	89.54	314.050	5,566.94	2,930.68	-1,940.90	1,927,498.46	1,267,083.42	36.29062635	-107.51682198	
8,900.00	89.54	314.050	5,567.74	3,000.21	-2,012.77	1,927,567.99	1,267,011.55	36.29081471	-107.51706889	
9,000.00	89.54	314.050	5,568.54	3,069.74	-2,084.64	1,927,637.52	1,266,939.68	36.29100308	-107.51731581	
9,100.00	89.54	314.050	5,569.34	3,139.26	-2,156.51	1,927,707.04	1,266,867.81	36.29119144	-107.51756272	
9,200.00	89.54	314.050	5,570.14	3,208.79	-2,228.38	1,927,776.57	1,266,795.94	36.29137980	-107.51780964	
9,300.00	89.54	314.050	5,570.94	3,278.31	-2,300.25	1,927,846.10	1,266,724.07	36.29156817	-107.51805655	
9,400.00	89.54	314.050	5,571.75	3,347.84	-2,372.13	1,927,915.62	1,266,652.20	36.29175653	-107.51830347	
9,500.00	89.54	314.050	5,572.55	3,417.37	-2,444.00	1,927,985.15	1,266,580.33	36.29194489	-107.51855039	



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,600.00	89.54	314.050	5,573.35	3,486.89	-2,515.87	1,928,054.67	1,266,508.46	36.29213325	-107.51879731	
9,700.00	89.54	314.050	5,574.15	3,556.42	-2,587.74	1,928,124.20	1,266,436.59	36.29232161	-107.51904423	
9,800.00	89.54	314.050	5,574.95	3,625.95	-2,659.61	1,928,193.73	1,266,364.71	36.29250998	-107.51929115	
9,900.00	89.54	314.050	5,575.75	3,695.47	-2,731.48	1,928,263.25	1,266,292.84	36.29269833	-107.51953808	
10,000.00	89.54	314.050	5,576.55	3,765.00	-2,803.35	1,928,332.78	1,266,220.97	36.29288669	-107.51978500	
10,100.00	89.54	314.050	5,577.36	3,834.52	-2,875.22	1,928,402.31	1,266,149.10	36.29307505	-107.52003193	
10,200.00	89.54	314.050	5,578.16	3,904.05	-2,947.09	1,928,471.83	1,266,077.23	36.29326341	-107.52027886	
10,300.00	89.54	314.050	5,578.96	3,973.58	-3,018.96	1,928,541.36	1,266,005.36	36.29345177	-107.52052578	
10,400.00	89.54	314.050	5,579.76	4,043.10	-3,090.84	1,928,610.88	1,265,933.49	36.29364013	-107.52077271	
10,500.00	89.54	314.050	5,580.56	4,112.63	-3,162.71	1,928,680.41	1,265,861.62	36.29382848	-107.52101964	
10,600.00	89.54	314.050	5,581.36	4,182.16	-3,234.58	1,928,749.94	1,265,789.75	36.29401684	-107.52126658	
10,700.00	89.54	314.050	5,582.16	4,251.68	-3,306.45	1,928,819.46	1,265,717.88	36.29420519	-107.52151351	
10,800.00	89.54	314.050	5,582.97	4,321.21	-3,378.32	1,928,888.99	1,265,646.01	36.29439355	-107.52176044	
10,900.00	89.54	314.050	5,583.77	4,390.74	-3,450.19	1,928,958.51	1,265,574.13	36.29458190	-107.52200738	
11,000.00	89.54	314.050	5,584.57	4,460.26	-3,522.06	1,929,028.04	1,265,502.26	36.29477026	-107.52225432	
11,100.00	89.54	314.050	5,585.37	4,529.79	-3,593.93	1,929,097.57	1,265,430.39	36.29495861	-107.52250125	
11,200.00	89.54	314.050	5,586.17	4,599.31	-3,665.80	1,929,167.09	1,265,358.52	36.29514696	-107.52274819	
11,300.00	89.54	314.050	5,586.97	4,668.84	-3,737.68	1,929,236.62	1,265,286.65	36.29533532	-107.52299513	
11,400.00	89.54	314.050	5,587.77	4,738.37	-3,809.55	1,929,306.15	1,265,214.78	36.29552367	-107.52324207	
11,500.00	89.54	314.050	5,588.57	4,807.89	-3,881.42	1,929,375.67	1,265,142.91	36.29571202	-107.52348902	
11,600.00	89.54	314.050	5,589.38	4,877.42	-3,953.29	1,929,445.20	1,265,071.04	36.29590037	-107.52373596	
11,700.00	89.54	314.050	5,590.18	4,946.95	-4,025.16	1,929,514.72	1,264,999.17	36.29608872	-107.52398291	
11,800.00	89.54	314.050	5,590.98	5,016.47	-4,097.03	1,929,584.25	1,264,927.30	36.29627707	-107.52422985	
11,900.00	89.54	314.050	5,591.78	5,086.00	-4,168.90	1,929,653.78	1,264,855.43	36.29646542	-107.52447680	
12,000.00	89.54	314.050	5,592.58	5,155.52	-4,240.77	1,929,723.30	1,264,783.55	36.29665377	-107.52472375	
12,100.00	89.54	314.050	5,593.38	5,225.05	-4,312.64	1,929,792.83	1,264,711.68	36.29684211	-107.52497070	
12,200.00	89.54	314.050	5,594.18	5,294.58	-4,384.52	1,929,862.35	1,264,639.81	36.29703046	-107.52521765	
12,300.00	89.54	314.050	5,594.99	5,364.10	-4,456.39	1,929,931.88	1,264,567.94	36.29721881	-107.52546460	
12,400.00	89.54	314.050	5,595.79	5,433.63	-4,528.26	1,930,001.41	1,264,496.07	36.29740715	-107.52571155	
12,500.00	89.54	314.050	5,596.59	5,503.16	-4,600.13	1,930,070.93	1,264,424.20	36.29759550	-107.52595851	
12,600.00	89.54	314.050	5,597.39	5,572.68	-4,672.00	1,930,140.46	1,264,352.33	36.29778385	-107.52620546	
12,700.00	89.54	314.050	5,598.19	5,642.21	-4,743.87	1,930,209.99	1,264,280.46	36.29797219	-107.52645242	
12,800.00	89.54	314.050	5,598.99	5,711.74	-4,815.74	1,930,279.51	1,264,208.59	36.29816053	-107.52669938	
12,900.00	89.54	314.050	5,599.79	5,781.26	-4,887.61	1,930,349.04	1,264,136.72	36.29834888	-107.52694634	
13,000.00	89.54	314.050	5,600.59	5,850.79	-4,959.48	1,930,418.56	1,264,064.84	36.29853722	-107.52719330	
13,100.00	89.54	314.050	5,601.40	5,920.31	-5,031.35	1,930,488.09	1,263,992.97	36.29872556	-107.52744026	
13,200.00	89.54	314.050	5,602.20	5,989.84	-5,103.23	1,930,557.62	1,263,921.10	36.29891391	-107.52768722	
13,300.00	89.54	314.050	5,603.00	6,059.37	-5,175.10	1,930,627.14	1,263,849.23	36.29910225	-107.52793419	
13,400.00	89.54	314.050	5,603.80	6,128.89	-5,246.97	1,930,696.67	1,263,777.36	36.29929059	-107.52818115	
13,500.00	89.54	314.050	5,604.60	6,198.42	-5,318.84	1,930,766.20	1,263,705.49	36.29947893	-107.52842812	
13,600.00	89.54	314.050	5,605.40	6,267.95	-5,390.71	1,930,835.72	1,263,633.62	36.29966727	-107.52867509	
13,700.00	89.54	314.050	5,606.20	6,337.47	-5,462.58	1,930,905.25	1,263,561.75	36.29985561	-107.52892205	
13,800.00	89.54	314.050	5,607.01	6,407.00	-5,534.45	1,930,974.77	1,263,489.88	36.30004395	-107.52916902	
13,900.00	89.54	314.050	5,607.81	6,476.52	-5,606.32	1,931,044.30	1,263,418.01	36.30023228	-107.52941600	
14,000.00	89.54	314.050	5,608.61	6,546.05	-5,678.19	1,931,113.83	1,263,346.14	36.30042062	-107.52966297	
14,100.00	89.54	314.050	5,609.41	6,615.58	-5,750.07	1,931,183.35	1,263,274.26	36.30060896	-107.52990994	
14,200.00	89.54	314.050	5,610.21	6,685.10	-5,821.94	1,931,252.88	1,263,202.39	36.30079730	-107.53015692	
14,300.00	89.54	314.050	5,611.01	6,754.63	-5,893.81	1,931,322.40	1,263,130.52	36.30098563	-107.53040389	
14,400.00	89.54	314.050	5,611.81	6,824.16	-5,965.68	1,931,391.93	1,263,058.65	36.30117397	-107.53065087	
14,500.00	89.54	314.050	5,612.61	6,893.68	-6,037.55	1,931,461.46	1,262,986.78	36.30136230	-107.53089785	
14,600.00	89.54	314.050	5,613.42	6,963.21	-6,109.42	1,931,530.98	1,262,914.91	36.30155064	-107.53114483	
14,700.00	89.54	314.050	5,614.22	7,032.74	-6,181.29	1,931,600.51	1,262,843.04	36.30173897	-107.53139181	
14,800.00	89.54	314.050	5,615.02	7,102.26	-6,253.16	1,931,670.04	1,262,771.17	36.30192730	-107.53163879	
14,900.00	89.54	314.050	5,615.82	7,171.79	-6,325.03	1,931,739.56	1,262,699.30	36.30211564	-107.53188577	
15,000.00	89.54	314.050	5,616.62	7,241.31	-6,396.90	1,931,809.09	1,262,627.43	36.30230397	-107.53213276	



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
15,100.00	89.54	314.050	5,617.42	7,310.84	-6,468.78	1,931,878.61	1,262,555.56	36.30249230	-107.53237974	
15,200.00	89.54	314.050	5,618.22	7,380.37	-6,540.65	1,931,948.14	1,262,483.68	36.30268063	-107.53262673	
15,300.00	89.54	314.050	5,619.03	7,449.89	-6,612.52	1,932,017.67	1,262,411.81	36.30286896	-107.53287372	
15,400.00	89.54	314.050	5,619.83	7,519.42	-6,684.39	1,932,087.19	1,262,339.94	36.30305729	-107.53312070	
15,500.00	89.54	314.050	5,620.63	7,588.95	-6,756.26	1,932,156.72	1,262,268.07	36.30324562	-107.53336769	
15,600.00	89.54	314.050	5,621.43	7,658.47	-6,828.13	1,932,226.24	1,262,196.20	36.30343395	-107.53361469	
15,700.00	89.54	314.050	5,622.23	7,728.00	-6,900.00	1,932,295.77	1,262,124.33	36.30362228	-107.53386168	
15,800.00	89.54	314.050	5,623.03	7,797.52	-6,971.87	1,932,365.30	1,262,052.46	36.30381061	-107.53410867	
15,900.00	89.54	314.050	5,623.83	7,867.05	-7,043.74	1,932,434.82	1,261,980.59	36.30399894	-107.53435567	
16,000.00	89.54	314.050	5,624.64	7,936.58	-7,115.62	1,932,504.35	1,261,908.72	36.30418726	-107.53460266	
16,100.00	89.54	314.050	5,625.44	8,006.10	-7,187.49	1,932,573.88	1,261,836.85	36.30437559	-107.53484966	
16,200.00	89.54	314.050	5,626.24	8,075.63	-7,259.36	1,932,643.40	1,261,764.98	36.30456391	-107.53509666	
16,300.00	89.54	314.050	5,627.04	8,145.16	-7,331.23	1,932,712.93	1,261,693.10	36.30475224	-107.53534366	
16,400.00	89.54	314.050	5,627.84	8,214.68	-7,403.10	1,932,782.45	1,261,621.23	36.30494056	-107.53559066	
16,500.00	89.54	314.050	5,628.64	8,284.21	-7,474.97	1,932,851.98	1,261,549.36	36.30512889	-107.53583766	
16,600.00	89.54	314.050	5,629.44	8,353.74	-7,546.84	1,932,921.51	1,261,477.49	36.30531721	-107.53608466	
16,700.00	89.54	314.050	5,630.24	8,423.26	-7,618.71	1,932,991.03	1,261,405.62	36.30550554	-107.53633167	
16,800.00	89.54	314.050	5,631.05	8,492.79	-7,690.58	1,933,060.56	1,261,333.75	36.30569386	-107.53657867	
16,900.00	89.54	314.050	5,631.85	8,562.31	-7,762.46	1,933,130.08	1,261,261.88	36.30588218	-107.53682568	
17,000.00	89.54	314.050	5,632.65	8,631.84	-7,834.33	1,933,199.61	1,261,190.01	36.30607050	-107.53707269	
17,100.00	89.54	314.050	5,633.45	8,701.37	-7,906.20	1,933,269.14	1,261,118.14	36.30625882	-107.53731970	
17,200.00	89.54	314.050	5,634.25	8,770.89	-7,978.07	1,933,338.66	1,261,046.27	36.30644714	-107.53756671	
17,300.00	89.54	314.050	5,635.05	8,840.42	-8,049.94	1,933,408.19	1,260,974.40	36.30663546	-107.53781372	
17,400.00	89.54	314.050	5,635.85	8,909.95	-8,121.81	1,933,477.72	1,260,902.52	36.30682378	-107.53806073	
17,500.00	89.54	314.050	5,636.66	8,979.47	-8,193.68	1,933,547.24	1,260,830.65	36.30701210	-107.53830774	
17,600.00	89.54	314.050	5,637.46	9,049.00	-8,265.55	1,933,616.77	1,260,758.78	36.30720042	-107.53855476	
17,700.00	89.54	314.050	5,638.26	9,118.52	-8,337.42	1,933,686.29	1,260,686.91	36.30738874	-107.53880178	
17,800.00	89.54	314.050	5,639.06	9,188.05	-8,409.29	1,933,755.82	1,260,615.04	36.30757705	-107.53904879	
17,900.00	89.54	314.050	5,639.86	9,257.58	-8,481.17	1,933,825.35	1,260,543.17	36.30776537	-107.53929581	
18,000.00	89.54	314.050	5,640.66	9,327.10	-8,553.04	1,933,894.87	1,260,471.30	36.30795369	-107.53954283	
18,100.00	89.54	314.050	5,641.46	9,396.63	-8,624.91	1,933,964.40	1,260,399.43	36.30814200	-107.53978985	
18,200.00	89.54	314.050	5,642.26	9,466.16	-8,696.78	1,934,033.93	1,260,327.56	36.30833032	-107.54003687	
18,300.00	89.54	314.050	5,643.07	9,535.68	-8,768.65	1,934,103.45	1,260,255.69	36.30851863	-107.54028390	
18,400.00	89.54	314.050	5,643.87	9,605.21	-8,840.52	1,934,172.98	1,260,183.82	36.30870694	-107.54053092	
18,500.00	89.54	314.050	5,644.67	9,674.74	-8,912.39	1,934,242.50	1,260,111.94	36.30889526	-107.54077795	
18,600.00	89.54	314.050	5,645.47	9,744.26	-8,984.26	1,934,312.03	1,260,040.07	36.30908357	-107.54102497	
18,700.00	89.54	314.050	5,646.27	9,813.79	-9,056.13	1,934,381.56	1,259,968.20	36.30927188	-107.54127200	
18,800.00	89.54	314.050	5,647.07	9,883.31	-9,128.01	1,934,451.08	1,259,896.33	36.30946020	-107.54151903	
18,900.00	89.54	314.050	5,647.87	9,952.84	-9,199.88	1,934,520.61	1,259,824.46	36.30964851	-107.54176606	
19,000.00	89.54	314.050	5,648.68	10,022.37	-9,271.75	1,934,590.13	1,259,752.59	36.30983682	-107.54201309	
19,100.00	89.54	314.050	5,649.48	10,091.89	-9,343.62	1,934,659.66	1,259,680.72	36.31002513	-107.54226013	
19,200.00	89.54	314.050	5,650.28	10,161.42	-9,415.49	1,934,729.19	1,259,608.85	36.31021344	-107.54250716	
19,300.00	89.54	314.050	5,651.08	10,230.95	-9,487.36	1,934,798.71	1,259,536.98	36.31040175	-107.54275420	
19,400.00	89.54	314.050	5,651.88	10,300.47	-9,559.23	1,934,868.24	1,259,465.11	36.31059005	-107.54300123	
19,500.00	89.54	314.050	5,652.68	10,370.00	-9,631.10	1,934,937.77	1,259,393.24	36.31077836	-107.54324827	
19,600.00	89.54	314.050	5,653.48	10,439.52	-9,702.97	1,935,007.29	1,259,321.36	36.31096667	-107.54349531	
19,700.00	89.54	314.050	5,654.28	10,509.05	-9,774.84	1,935,076.82	1,259,249.49	36.31115498	-107.54374235	
19,800.00	89.54	314.050	5,655.09	10,578.58	-9,846.72	1,935,146.34	1,259,177.62	36.31134328	-107.54398939	
19,900.00	89.54	314.050	5,655.89	10,648.10	-9,918.59	1,935,215.87	1,259,105.75	36.31153159	-107.54423643	
20,000.00	89.54	314.050	5,656.69	10,717.63	-9,990.46	1,935,285.40	1,259,033.88	36.31171989	-107.54448347	
20,100.00	89.54	314.050	5,657.49	10,787.16	-10,062.33	1,935,354.92	1,258,962.01	36.31190820	-107.54473052	
20,200.00	89.54	314.050	5,658.29	10,856.68	-10,134.20	1,935,424.45	1,258,890.14	36.31209650	-107.54497757	
20,288.42	89.54	314.050	5,659.00	10,918.16	-10,197.75	1,935,485.92	1,258,826.59	36.31226300	-107.54519600	
PBHL/TD @ 20288.42 MD 5659.00 TVD										



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
Bobby B 47H FTP 1928	0.00	0.000	5,539.00	837.09	223.14	1,925,404.88	1,269,247.46	36.28495400	-107.50938800
- plan misses target center by 19.28ft at 5792.38ft MD (5522.61 TVD, 847.07 N, 224.95 E)									
- Point									
Bobby B 47H vs=0	0.00	0.000	5,539.00	543.93	526.18	1,925,111.72	1,269,550.50	36.28415967	-107.50834709
- plan misses target center by 241.39ft at 5497.35ft MD (5375.41 TVD, 683.63 N, 416.66 E)									
- Point									
Bobby B 47H LTP 2415	0.00	0.000	5,659.00	10,918.16	-10,197.75	1,935,485.92	1,258,826.59	36.31226300	-107.54519600
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
	(ft)	(ft)		(")	(")
	350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4
	5,897.83	5,541.39	7" Intermediate Casing	7	8-3/4

Formations						
	Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
	(ft)	(ft)			(°)	(°)
	1,391.82	1,379.01	Ojo Alamo		0.460	314.050
	1,534.70	1,519.01	Kirtland		0.460	314.050
	1,743.91	1,724.02	Fruitland		0.460	314.050
	2,009.26	1,984.02	Pictured Cliffs		0.460	314.050
	2,131.72	2,104.03	Lewis		0.460	314.050
	2,458.30	2,424.03	Chacra_A		0.460	314.050
	3,586.02	3,529.05	Cliff House_Basal		0.460	314.050
	3,606.43	3,549.05	Menefee		0.460	314.050
	4,336.14	4,264.06	Point Lookout		0.460	314.050
	4,625.79	4,549.07	Mancos		0.460	314.050
	4,981.29	4,904.07	MNCS_A		0.460	314.050
	5,066.30	4,989.07	MNCS_B		0.460	314.050
	5,234.84	5,154.31	MNCS_C		0.460	314.050
	5,322.17	5,234.59	MNCS_Cms		0.460	314.050
	5,350.85	5,259.70	MNCS_D		0.460	314.050
	5,449.47	5,340.15	MNCS_E		0.460	314.050
	5,497.35	5,375.41	MNCS_F		0.460	314.050
	5,636.98	5,461.29	MNCS_G		0.460	314.050
	5,728.09	5,501.94	MNCS_H @ 1st Take Point		0.460	314.050
	5,728.09	5,501.94	MNCS_H @ 0vs		0.460	314.050



Planning Report - Geographic

Database:	DT-Oct0825v17	Local Co-ordinate Reference:	Well Bobby B 047H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Project:	Rio Arriba County, New Mexico NAD83 NM C	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site:	Sec 30 T24N R06W	North Reference:	Grid
Well:	Bobby B 047H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Orig hole		
Design:	rev0		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
500.00	500.00	0.00	0.00	KOP Begin 3°/100' build	
883.85	881.27	27.92	26.42	Begin 11.52° tangent	
4,463.98	4,389.34	547.05	517.68	Begin 3°/100' drop	
4,847.83	4,770.61	574.97	544.10	Begin vertical hold	
5,047.83	4,970.61	574.97	544.10	Begin 10°/100' build	
5,747.83	5,509.01	819.56	257.22		
5,897.83	5,541.39	914.30	146.10	85° inc Begin 10°/100' build/turn	
5,955.75	5,544.15	953.18	103.29	Begin 89.54° lateral	
20,288.42	5,659.00	10,918.16	-10,197.75	PBHL/TD @ 20288.42 MD 5659.00 TVD	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Blvd, Suite A
Farmington, New Mexico 87402



In Reply Refer To:
3162.3-1(NMF0110)

ENDURING RESOURCES LLC
#047H BOBBY B
APD ID: 10400111613

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☒ Test all casing strings below the conductor casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield (burst) for a minimum of 30 minutes. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- D. ☐ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales.
- E. ☐ The use of co-flex hose is authorized contingent upon the following:
1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

Epic PHS Ex. 2, P. 75

I. GENERAL

- A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**
- J. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**

- K. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- L. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.
- M. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14)

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer online through AFMSS 2 within 30 days after the work is completed.
 - 1. Provide complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 - 2. Well Completion Report will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 - 3. Submit a cement evaluation log if cement is not circulated to surface.
- C. Production Startup Notification is required no later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressure tests, including test pressures and results, 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results, and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of * Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

- A. Any changes of plans required to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.I.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.I. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.

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

ACKNOWLEDGMENTS

Action 603062

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 603062
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 603062

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 603062
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
andrew.fordyce	Requested revised C-102s on 7/16/2026.	8/7/2026

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 603062

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 603062
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/8/2026
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/8/2026
andrew.fordyce	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/10/2026
andrew.fordyce	Notify the OCD 24 hours prior to casing & cement.	8/10/2026
andrew.fordyce	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	8/10/2026
andrew.fordyce	ASTM Type 1L cement is not approved for use by NMOCD at this time.	8/10/2026
andrew.fordyce	If a DV tool is utilized during the casing cementing operations, the following COA applies: 1- Once the DV tool is opened and circulation is established, it needs to be noted if cement is circulated off of the top of the DV tool and how much. 2- If cement is not circulated off of the top of the DV tool, then a CBL will be required. Depending upon the results of the CBL, remedial action may be required prior to drilling operations continuing.	8/10/2026

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF ENDURING RESOURCES,
LLC FOR APPROVAL OF THE BOBBY B UNIT,
RIO ARriba COUNTY, NEW MEXICO**

Case No. 26365

TESTIMONY OF MARK THOMPSON

I, Mark Thompson, submit this testimony under penalty of perjury under the law of the State of New Mexico, in advance of the hearing in the Oil Conservation Division Case above.

1. I am currently an Operations Engineer for Wash Engineering & Production (“Walsh”), which is a company contracted by Epic Energy, LLC (“Epic”), for a variety of services. I have been with Walsh since 2025.

2. I have not previously testified before the New Mexico Oil Conservation Division (the “Division”). I have attached my current resume as Exhibit 4. It outlines my education, training, and experience.

3. I hold a degree in Chemical Engineering from New Mexico State University and have worked in the oil and gas industry since 2009, with more than ten years focused on horizontal-well planning and anti-collision analysis.

4. From November 2013 through October 2025, I served as a Senior Well Planner at EOG Resources. I developed, permitted, and directionally planned horizontal drilling programs; prepared directional and drilling plans used at the rig and submitted to state and federal regulators; and worked with field personnel and regulatory officials regarding changing drilling programs.

5. I know that Enduring Resources, LLC (“Enduring”) submitted to the Division and Application for approval of the Bobby B exploratory unit and proposed expansion (“Bobby B



Unit”). I am familiar with the history of correspondence between Epic and Enduring related to Enduring’s practices applying for drilling permits and drilling and stimulating horizontal wells in proximity to Epic’s existing wells. I have reviewed Enduring’s APDs for the Bobby B wells planned from the Bobby B 040H pad. I am familiar with the standard of a prudent and responsible operator in well-planning, directional-drilling, anti-collision, drilling, completion, notice, and mitigation practices, and have opinions whether Enduring met that standard and whether Enduring’s practices have interfered with Epic’s operations and whether the planned Bobby B wells from the Bobby B 040H pad will interfere with Epic’s operations.

6. A proper anti-collision analysis identifies every existing and planned wellbore that could interact with the proposed well, regardless of operator. It uses the available survey information and an appropriate error model to calculate an ellipse of uncertainty around each wellbore and then evaluates the distance between the proposed and offset wellbores.

7. The principal collision-risk metric is the separation factor, which compares the distance between two surveyed wellbore centerlines to the combined size of their ellipses of uncertainty. A separation factor below 1.0 means that the two ellipses of uncertainty overlap and therefore presents a technical collision risk.

8. In my experience and consistent with accepted collision-avoidance practice, a separation factor above 2.0 generally indicates no material collision concern; a factor between 1.5 and 2.0 indicates a low risk of collision; a factor between 1.0 and 1.5 requires caution, management review, or a written exception; and a factor at or below 1.0 is a Level 1 warning requiring drilling to stop until the risk is resolved and appropriate mitigation is implemented.

9. Where a legacy vertical well has only limited deviation data, its positional uncertainty can be substantial. A prudent operator planning a nearby horizontal well should obtain

the best available offset-well information, coordinate with the offset operator, and, where appropriate, run a wireline gyroscopic survey, revise the planned trajectory, establish drilling controls, shut in or otherwise protect the offset well, and continuously monitor the risk.

10. The Bobby B 047H APD's anti-collision report identifies several active Epic wells as offset wells and reports separation factors below 1.0 for four Epic wells. See Ex. 2 at 25:

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Sec 14 T24N R07W						
Pre Ongard 001 - No surveys - No surveys	18,494.88	5,805.13	685.91	149.70	1.279	Level 3<2.00, CC
Pre Ongard 001 - No surveys - No surveys	18,500.00	5,805.17	685.93	149.53	1.279	Level 3<2.00, ES, SF
Sec 23 T24N R07W						
Byrd 001 - Orig hole - No surveys	16,700.00	5,674.74	1,306.95	817.44	2.670	CC
Byrd 001 - Orig hole - No surveys	16,704.45	5,674.78	1,306.95	817.36	2.669	ES, SF
Sec 24 T24N R07W						
Grace Federal 24 001R - Orig hole - Inc only surveys	15,339.62	5,620.43	79.82	-304.41	0.208	Level 3<2.00, CC, ES, SF
Grace Federal 24 002 - Orig hole - Inc only surveys	14,098.03	5,542.70	171.45	-156.58	0.523	Level 3<2.00, CC, ES, SF
Lybrook Fed 005 - Orig hole - Inc only surveys	11,013.98	5,569.87	175.24	-104.70	0.626	Level 3<2.00, CC, ES, SF
Pre ongard 001 (Grace Federal 24) - Orig hole - Inc only	14,859.29	5,582.86	364.42	-10.36	0.972	Level 3<2.00, CC, ES, SF
Pre ongard 001 (Reynolds Killarney 24) - Orig hole - No s	11,991.61	5,556.01	400.46	24.53	1.065	Level 3<2.00, CC, ES, SF
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,663.45	5,605.40	1,044.87	651.37	2.655	CC, ES
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,700.00	5,605.69	1,045.51	651.53	2.654	SF
Sec 30 T24N R06W						
Bobby B 040H - Orig hole - rev0	500.00	500.00	40.15	36.73	11.752	CC, ES
Bobby B 040H - Orig hole - rev0	600.00	599.95	42.66	38.53	10.325	SF
Bobby B 041H - Orig hole - rev0	500.00	500.00	19.91	16.50	5.828	CC, ES
Bobby B 041H - Orig hole - rev0	20,288.42	20,192.02	1,185.12	494.56	1.716	Level 3<2.00, SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	139.84	136.42	40.933	CC, ES
Bobby B 042H - Orig hole - rev0	700.00	685.57	158.91	154.13	33.247	SF
Bobby B 043H - Orig hole - rev0	500.00	500.00	119.92	116.51	35.104	CC, ES
Bobby B 043H - Orig hole - rev0	800.00	792.46	144.81	139.26	26.115	SF
Bobby B 044H - Orig hole - rev0	500.00	500.00	100.01	96.60	29.276	CC, ES
Bobby B 044H - Orig hole - rev0	800.00	798.77	122.76	117.19	22.022	SF
Bobby B 045H - Orig hole - rev0	5,453.36	5,465.56	70.10	30.70	1.779	Level 3<2.00, CC, ES, SF
Bobby B 046H - Orig hole - rev0	1,919.68	1,952.14	41.38	25.36	2.582	CC, ES, SF
Rincon 001 - Orig hole - Inc only surveys	6,858.80	5,594.96	136.69	-34.10	0.800	Level 3<2.00, CC, ES, SF
Rincon 002 - Orig hole - Inc only surveys	4,899.02	4,801.56	599.65	480.24	5.022	CC
Rincon 002 - Orig hole - Inc only surveys	5,100.00	5,002.58	601.17	477.33	4.854	ES
Rincon 002 - Orig hole - Inc only surveys	5,300.00	5,195.67	615.58	487.29	4.798	SF

Those values are not merely cautionary; they are Level 1 warnings showing overlapping uncertainty envelopes and an unacceptable risk that the planned wellbore may collide with, breach, or otherwise damage the existing wells.

11. In my professional opinion, Enduring should not proceed to drill the Bobby B 047H on the plan reflected in that report. Before drilling, Enduring should resolve each warning, particularly where the separation factor is less than 1.0, through a documented re-plan and coordinated mitigation acceptable to the affected offset operator and the regulators. At a minimum,

that process should include timely disclosure of the APD and directional plan, verification of offset-well locations, consideration of gyro surveys, trajectory changes or safety buffers, protective measures for the active offsets, and real-time communication and monitoring.

12. Based on my knowledge and the records I reviewed, Enduring did not provide Epic the required advance information concerning the Bobby B 047H APD (or the APDs for the Bobby B 040H, 041H, 042H, 043H, 044H, 045H, or 046H) before regulatory approval. That failure deprived Epic of the practical opportunity to identify the Level 1 warnings, provide well-specific information, propose mitigation, protect its active wells, and alert the BLM and the Division before approval was granted.

13. The risks shown for the Bobby B 047H are confirmed by Enduring's prior operations. While drilling the Ridge Unit 135H, Enduring passed extremely close to Epic's active South Blanco Federal 22-5. My analysis based on publicly available information and Epic's internal records found a separation factor of less than one, a Level 1 warning at which drilling should have stopped and mitigation should have been implemented. Over 400 barrels of Enduring's drilling fluid flooded into the South Blanco Federal 22-5 and completely overflowed Epic's surface storage tanks. This caused an uncontrolled surface release of over 40 barrels of crude oil onto surrounding public lands. When Enduring was cementing the production liner in place, it appears that cement migrated into the SBF 22-5 wellbore, which in turn cemented the production tubing and pump/rods into place.

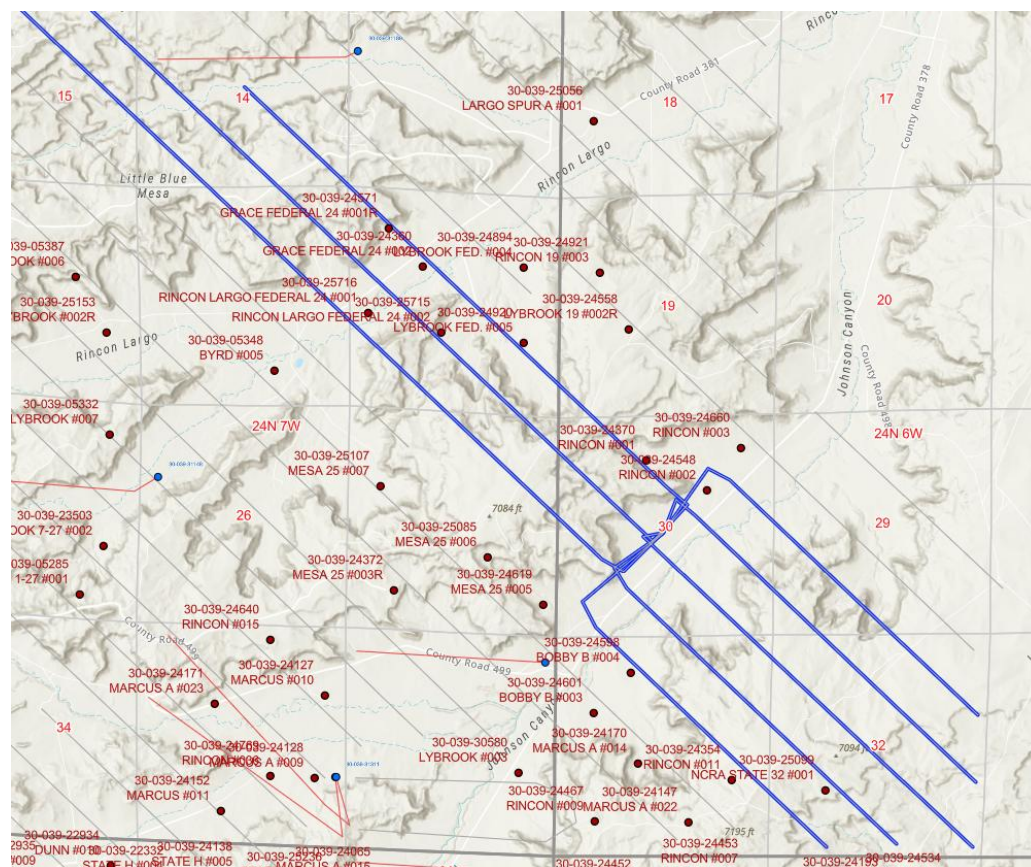
14. That incident demonstrates the foreseeable consequences of drilling through a Level 1 anti-collision warning without notice, coordination, or mitigation: uncontrolled subsurface communication, loss of drilling fluids and hydrocarbons, surface releases, emergency-response

and plugging costs, destruction of an existing producing asset, loss of future production, waste, environmental harm, and impairment of the offset owner's correlative rights.

15. Like the Bobby B 047H, additional Enduring wells are planned or were drilled with Level 1 separation factors ("SF") near offsetting wells, including, but not limited to, Epic wells:

- Bobby B 040H Anticollision Report ("AR"): three wells with <1.0 SF. *See Ex. 5.*
- Bobby B 041H AR: four wells with <1.0 SF. *See Ex. 6.*
- Bobby B 043H AR: one well with <1.0 SF. *See Ex. 7.*
- Bobby B 045H AR: one well with <1.0 SF. *See Ex. 8.*

Aside from the Anticollision Reports, an image of the planned Enduring horizontal wells from the Bobby B 040H pad with existing wells identified demonstrates the dangerous proximity of the planned Bobby B horizontal wells to existing wells.



Ex. 9. These facts show a recurring pattern rather than an isolated accident.

16. Any other Bobby B well that Enduring proposed or will propose with a similarly low separation factor presents the same class of danger. The precise consequence may depend on the geology, the condition and pressure of the existing well, and the drilling and completion program, but a separation factor at or below 1.0 establishes that the well paths cannot be treated as safely separated and that drilling must not proceed without resolving the risk.

17. Approval of the Bobby B Unit would facilitate the drilling of the Bobby B 047H and additional horizontal or multi-lateral wells in the Unit while excluding existing wells from the Unit Agreement. Unless the approval expressly addresses individual-well notice, full anti-collision analysis, risk resolution, and coordinated mitigation, it would permit Enduring to repeat the same practices that produced the prior incidents described above.

18. In my professional opinion, allowing Enduring to drill the Bobby B 047H or any other Bobby B well with a Level 1 (<1.0 SF) or comparably dangerous separation factor, after failing to provide the required notice to affected offset operators, would create an unreasonable and foreseeable risk of collision, wellbore breach, drilling-fluid or cement migration, frac communication, surface and subsurface releases, injury to personnel, and damage to existing wells and equipment.

19. Those consequences constitute waste because they can cause the loss of drilling fluids and recoverable hydrocarbons, require unnecessary remediation and plugging, and destroy productive capacity. They also create environmental harm through surface releases and subsurface contamination and impair correlative rights by interfering with, damaging, or destroying Epic's active wells and Epic's ability to recover its share of hydrocarbons.

20. For these reasons, I conclude that the Division should not approve the Bobby B Unit unless and until Enduring demonstrates that the Bobby B 047H and every other proposed Unit well can be drilled consistently with conservation, prevention of waste, protection of the environment, and protection of correlative rights. At a minimum, any approval should require timely advance notice of each APD to every operator of an offset well within the applicable area of concern, disclosure of complete directional and anti-collision information, resolution of all Level 1 warnings before drilling, written and coordinated mitigation plans, and continuing notice of material changes in drilling or completion timing and design.

21. Based on the information I reviewed, Enduring has not made that showing. For example, its plan for the Bobby B 047H contains Level 1 anti-collision warnings involving active Epic wells. Enduring did not provide any notice to Epic that it sought approval of the Bobby B 047H (or other Bobby B wells from the Bobby B 040H pad). And its email to Epic in late August that it was mobilizing a drilling rig alerted Epic only days before mobilization, and did not advise Epic of which Bobby B wells it planned to drill or when. *See* Ex. 1. Its prior conduct shows that ignoring offset-operator notice and mitigation can cause environmental releases, waste, and unnecessary damage to or destruction of Epic's producing wells. Approval without effective safeguards would therefore expose Epic and the public to a foreseeable repetition of those harms.

22. Advance notice is therefore not a procedural technicality. It is an essential engineering and operational safeguard. Timely and complete notice allows the offset operator to verify the affected well, provide survey and completion information, install protective equipment, shut in or monitor the well, arrange personnel and emergency response, and coordinate changes before the drilling or completion operation creates an uncontrolled path for fluid or pressure.

23. When an APD is withheld as confidential and becomes available to offset operators only after approval, an offset operator cannot perform those functions before the regulator has acted. If the applicant also omits the offset operator from the required notice, the practical result is that a technically dangerous well can be approved without the affected operator or the regulator receiving the information needed to test the operator's assumptions and require mitigation.

24. I am aware that, for over a year, Epic has communicated with Enduring to alert it to its improper notice practices and to request advance notice of Enduring's drilling of wells in proximity to Epic's offset wells. Enduring ignored and refused these requests until just weeks ago, when Enduring provided Epic notice for the first time of its intention to mobilize a drilling rig to the Bobby B 040H pad, although the notice did not specify which wells would be drilled when, and was provided less than two weeks (14 days) before the drilling rig was mobilized. *See Ex. 1.* I am also aware that even the Division, over a year ago, advised Enduring that it needs to take appropriate actions to avoid negative impacts in compliance with the Division's Rules. *See Ex. 10.*

25. Approval of the Bobby B Unit would not cure the Bobby B 047H risk. It would instead provide the development framework for additional horizontal and multi-lateral wells while the existing vertical wells remain outside the Unit Agreement. Without enforceable individual-well notice and collision-risk requirements, later wells may be approved and drilled through the same process and may present the same or even lower separation factors.

26. The resulting waste includes drilling fluid and cement lost into the formation or offset wellbore, produced oil and gas released or left unrecoverable, productive wells prematurely shut in or permanently abandoned, unnecessary workover, emergency-response, remediation, and plugging operations, and damage to reservoir connectivity that reduces the efficient recovery of hydrocarbons.

27. The environmental harms include uncontrolled surface discharges of produced oil and drilling fluids, contamination of soil and public lands, subsurface migration of drilling mud, cement, frac fluid, and proppant into existing wells and productive formations, and increased risks to personnel responding to an unexpected pressure or fluid event.

28. Epic's correlative rights are impaired when Enduring's operations prevent Epic from safely operating an existing well, require Epic to bear defensive and repair costs, reduce or eliminate production, alter the well's connection to the reservoir, or destroy the well as a producing asset. Those are not limited to theoretical future possibilities; they are outcomes that already have occurred with previous Enduring wells.

29. Approval of the Bobby B Unit without enforceable protections will allow Enduring to drill wells that were or may be approved after Enduring ignored required notice to affected offset operators, including wells with separation factors indicating overlapping uncertainty envelopes. That approval would create a foreseeable risk of repeating the Ridge event (among others), causing waste, environmental harm, impairment of correlative rights, and unnecessary damage to or destruction of Epic's active wells.

30. Accordingly, the Division should deny the Bobby B Unit Application. If the Division nevertheless approves the Unit, its Order should expressly require, before submission of each APD to the BLM and the Division: (1) advance notice to every operator of an offset well within the applicable area of concern; (2) disclosure of the complete planned trajectory and anti-collision analysis; (3) independent resolution of every separation factor at or below 1.0; (4) coordinated well-protection and monitoring plans; and (5) prompt notice of any material change in drilling or completion design, sequence, or timing.

31. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

09-08-2026
Date

/s/ Mark Thompson
Mark Thompson

MARK THOMPSON

6405 Hawk Eye St, Farmington, NM 87402

PHONE: (575) 642-5875 • EMAIL: mark@walsheng.net

SUMMARY OF SKILLS

A dedicated and driven person that has a positive attitude and the ability to learn quickly. Experience in multiple oil and gas basins. An understanding in what makes a successful and efficient drilling program. Experience in well planning with an understanding of torque and drag effects as well as geological targeting.

EDUCATION

8/03-5/09 **New Mexico State University**, Las Cruces, NM
Major: Chemical Engineering
 ~B.S. degree in May 2009~

07/22-12/23 **University of Denver**, Denver, CO
Major: Master of Science, Software Development and Programming
 ~M.S. degree in December 2023~

WORK EXPERIENCE

10/25-Present **Walsh Engineering and Production**

Project Engineer

- Involved all stages of well development for clients across San Juan Basin.
- Drilling Programs, workover programs, production analysis, economic and reservoir evaluations for prospective acquisitions.
- Unique projects for clients ranging from helium and uranium extraction testing to wildcat drilling prospects.

11/13-1/16 **EOG Resources**

8/16-10/25 Sr. Well Planner

- Involved in the development, plans, and economics of drilling programs in North Dakota and DJ Basins.
- Work closely with field personnel to continually improve efficiency of rig performance.
- Administered drilling and service contracts.
- Oversaw directional and geological targeting to improve well performance.
- Created horizontal well directional and drilling plans to be used on site and by regulatory for approval of in both North Dakota and Wyoming.

3/11-02/19 **Seidel Technologies**

Project Engineer

- Consulted for Oasis Petroleum North America, Helis Oil & Gas Co, Laramie Energy II, Samson Resources, Vaalco Energy, Enerplus Resources and Navajo Nation Oil & Gas.
 - Well completions, workovers and restimulations.
 - Design of both full and surface-only drilling programs for horizontal wells.
 - Experience working with state officials to ensure that all requirements were met prior to beginning of project.

4/12-4/13 **Departure Energy Services**

Project Engineer/Well Planner

- Well Planning, Anti-Collision, Torque and Drag analysis both prior to and during a project.
- Implement better drilling practices with customers prior to the beginning of projects to improve both design and efficiency.
- Planning for both directional vertical and extended reach horizontal wells.

6/09-3/11 **Halliburton Energy Services**

Associate Technical Professional

- Fracturing Techniques
 - Guar gels and Borate systems
 - Nitrogen and Carbon Dioxide foams systems





Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 040H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 040H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference
Interpolation Method:	MD Interval 100.00ft
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 2,899.78ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCSWA
Scan Method:	Closest Approach 3D
Error Surface:	Ellipsoid Separation
Casing Method:	Not applied

Survey Tool Program		Date	4/23/2026		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	26,997.44	rev0 (Orig hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Sec 14 T24N R07W						
Escrito D14-2407 Com 01H - Orig hole - MWD surveys	26,598.09	9,552.98	177.00	-22.83	0.886	Level 3<2.00, CC, ES, SF
Sec 15 T24N R07W						
Pre ongard well 001 - Orig hole - No surveys	24,033.41	5,995.74	709.82	41.18	1.062	Level 3<2.00, CC, ES, SF
Sec 23 T24N R07W						
Byrd 001 - Orig hole - No surveys	16,824.95	5,631.96	1,063.15	575.49	2.180	CC, ES, SF
Byrd 23 006 - Orig hole - Inc only surveys	15,860.51	5,567.56	173.97	-188.65	0.480	Level 3<2.00, CC, ES, SF
Pre ongard 006 (Blakely 23) - Orig hole - No surveys	18,322.24	5,662.97	1,984.03	1,460.37	3.789	CC
Pre ongard 006 (Blakely 23) - Orig hole - No surveys	18,400.00	5,663.59	1,985.56	1,459.43	3.774	ES
Pre ongard 006 (Blakely 23) - Orig hole - No surveys	18,500.00	5,664.39	1,991.98	1,463.48	3.769	SF
Sec 24 T24N R07W						
Rincon Largo Federal 24 001 - Orig hole - No surveys	14,400.00	5,527.53	448.83	21.92	1.051	Level 3<2.00, CC, ES, SF
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,787.06	5,562.60	1,325.17	933.41	3.383	CC
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,800.00	5,562.70	1,325.24	933.40	3.382	ES, SF
Sec 30 T24N R06W						
Bobby B 041H - Orig hole - rev0	800.00	800.00	20.24	14.67	3.635	CC, ES
Bobby B 041H - Orig hole - rev0	25,600.00	25,379.60	1,185.59	256.13	1.276	Level 3<2.00, SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	99.69	96.27	29.181	CC, ES
Bobby B 042H - Orig hole - rev0	6,600.00	5,616.43	1,485.27	1,409.96	19.720	SF
Bobby B 043H - Orig hole - rev0	700.00	700.00	79.78	74.93	16.448	CC
Bobby B 043H - Orig hole - rev0	5,570.49	5,551.11	93.48	48.99	2.101	ES, SF
Bobby B 044H - Orig hole - rev0	1,491.83	1,480.39	27.65	17.09	2.619	CC
Bobby B 044H - Orig hole - rev0	1,500.00	1,488.33	27.69	17.02	2.596	ES, SF
Bobby B 045H - Orig hole - rev0	876.51	878.42	17.34	11.18	2.817	CC, ES, SF
Bobby B 046H - Orig hole - rev0	978.70	978.71	10.80	3.99	1.586	Level 3<2.00, CC, ES, SF
Bobby B 047H - Orig hole - rev0	500.00	500.00	40.15	36.73	11.752	CC, ES
Bobby B 047H - Orig hole - rev0	20,500.00	20,288.42	2,372.15	1,680.46	3.430	SF
Goff 30 005 - Orig hole - No surveys	7,368.12	5,766.17	227.15	-42.64	0.842	Level 3<2.00, CC, ES, SF

CC - Min centre to center distance or convergent point, ES - min ellipse separation

4/23/2026 1:01:38PM

EXHIBIT
Page 1

5

COMPASS 5000.17 Build 02

Epic PHS Ex. 5, P. 1



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 040H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 040H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Coordinates are relative to: Bobby B 040H

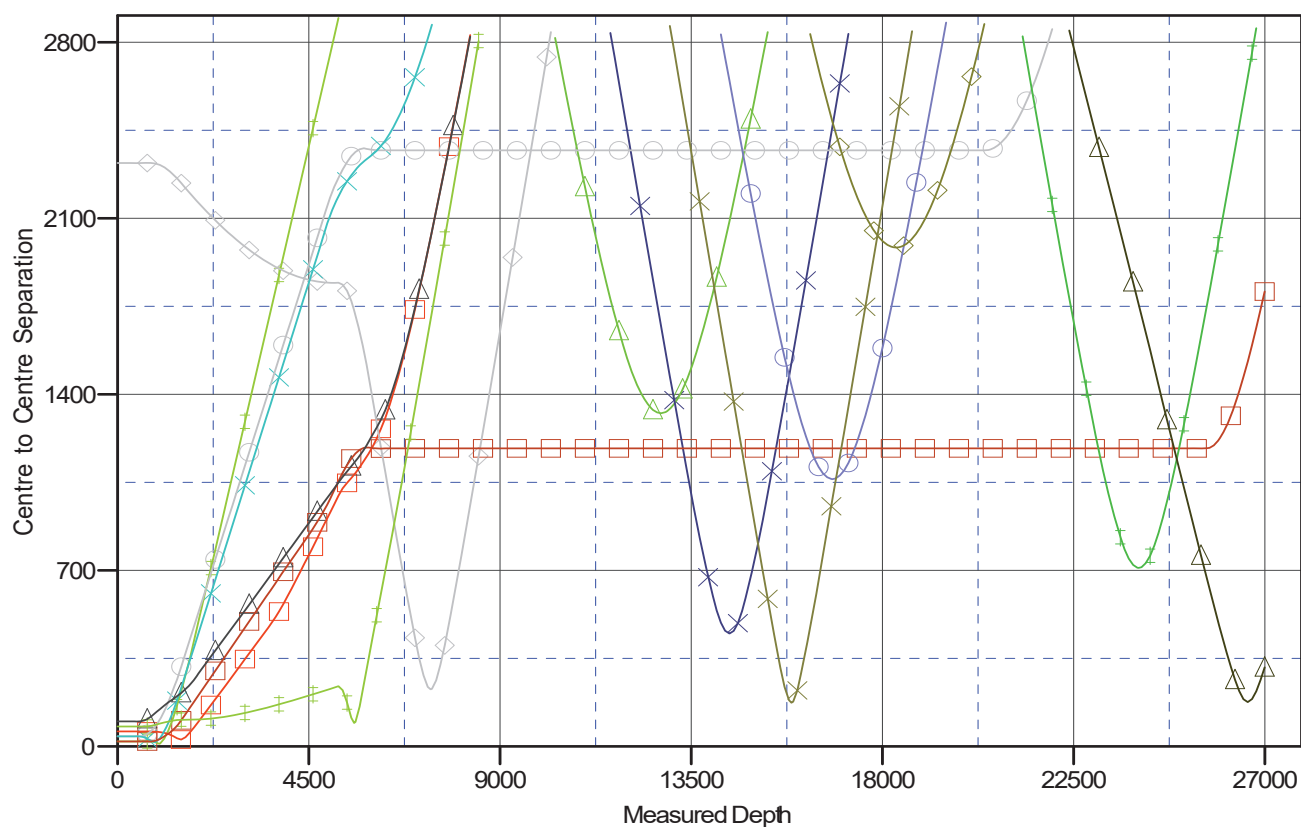
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Central Zone

Central Meridian is -106.25000000

Grid Convergence at Surface is: -0.746°

Ladder Plot



LEGEND

Pinon Largo Federal 24002, Orig hole, No surveys V0	Golf 30005, Orig hole, No surveys V0	Byrd 001, Orig hole, No surveys V0
Pinon Largo Federal 24001, Orig hole, No surveys V0	Bobby B045H, Orig hole, No surveys V0	Pre ongard 006 (Balek) 23, Orig hole, No surveys V0
Bobby B046H, Orig hole, No surveys V0	Bobby B041H, Orig hole, No surveys V0	Byrd 23006, Orig hole, No surveys V0
Bobby B044H, Orig hole, No surveys V0	Bobby B042H, Orig hole, No surveys V0	Pre ongard well 001, Orig hole, No surveys V0
Bobby B047H, Orig hole, No surveys V0	Bobby B043H, Orig hole, No surveys V0	Esrb D14-2407, Com 01, Orig hole, No surveys V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 040H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 040H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Offset Depths are relative to Offset Datum

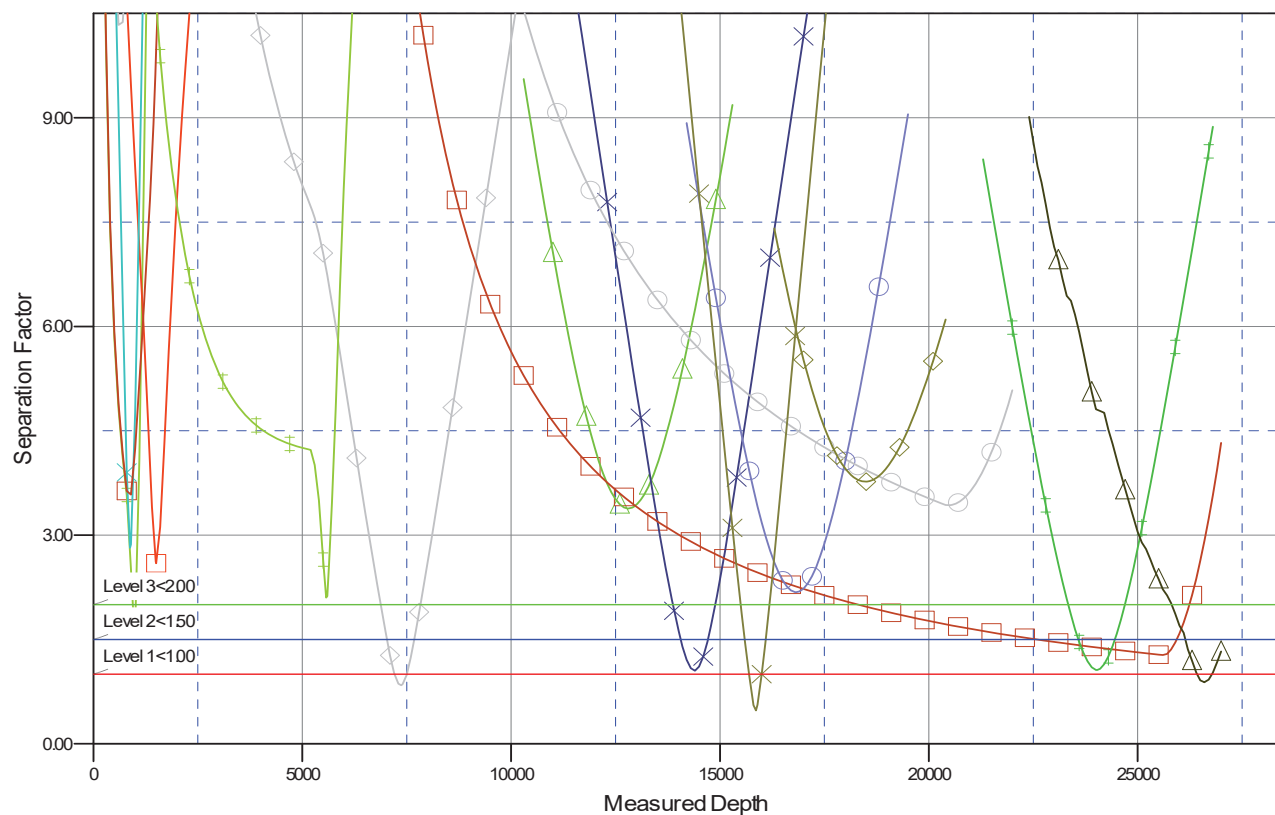
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B 040H

Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.746°

Separation Factor Plot



LEGEND

Razon Largo Federal 24002, Orig hole, No surveys V0	Golf 30005, Orig hole, No surveys V0	Byrd 001, Orig hole, No surveys V0
Razon Largo Federal 24001, Orig hole, No surveys V0	Bobby B045H, Orig hole, rev0 V0	Pre ongard 006 (Balek) 23, Orig hole, No surveys V0
Bobby B046H, Orig hole, rev0 V0	Bobby B041H, Orig hole, rev0 V0	Byrd 23006, Orig hole, No surveys V0
Bobby B044H, Orig hole, rev0 V0	Bobby B042H, Orig hole, rev0 V0	Pre ongard well 001, Orig hole, No surveys V0
Bobby B047H, Orig hole, rev0 V0	Bobby B043H, Orig hole, rev0 V0	Esato D14-2407, Com 01, Orig hole, No surveys V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 041H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 041H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference
Interpolation Method:	MD Interval 100.00ft
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 2,741.09ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCSWA
Scan Method:	Closest Approach 3D
Error Surface:	Ellipsoid Separation
Casing Method:	Not applied

Survey Tool Program		Date	4/23/2026		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	25,410.87	rev0 (Orig hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 14 T24N R07W						
Escrito D14-2407 Com 01H - Orig hole - MWD surveys	25,114.33	7,821.56	166.88	-6.61	0.962	Level 3<2.00, CC, ES, SF
Pre Ongard 001 - No surveys - No surveys	18,398.35	5,790.51	1,870.95	1,335.70	3.495	CC
Pre Ongard 001 - No surveys - No surveys	18,400.00	5,790.53	1,870.95	1,335.67	3.495	ES
Pre Ongard 001 - No surveys - No surveys	18,500.00	5,791.37	1,873.71	1,336.88	3.490	SF
Sec 15 T24N R07W						
Pre ongard well 001 - Orig hole - No surveys	23,813.28	6,026.06	475.34	-194.74	0.709	Level 3<2.00, CC, ES, SF
Sec 23 T24N R07W						
Byrd 001 - Orig hole - No surveys	16,604.58	5,659.42	121.90	-366.38	0.250	Level 3<2.00, CC, ES, SF
Byrd 23 006 - Orig hole - Inc only surveys	15,640.40	5,594.64	1,011.06	643.30	2.749	CC, ES
Byrd 23 006 - Orig hole - Inc only surveys	15,700.00	5,595.14	1,012.82	643.89	2.745	SF
Sec 24 T24N R07W						
Grace Federal 24 001R - Orig hole - Inc only surveys	15,243.08	5,604.55	1,105.23	720.18	2.870	CC, ES
Grace Federal 24 001R - Orig hole - Inc only surveys	15,300.00	5,605.03	1,106.70	720.97	2.869	SF
Grace Federal 24 002 - Orig hole - Inc only surveys	14,000.00	5,526.33	1,013.61	685.20	3.086	CC
Grace Federal 24 002 - Orig hole - Inc only surveys	14,004.45	5,526.36	1,013.61	685.12	3.086	ES, SF
Pre ongard 001 (Grace Federal 24) - Orig hole - Inc only	14,762.87	5,574.61	1,549.56	1,174.62	4.133	CC
Pre ongard 001 (Grace Federal 24) - Orig hole - Inc only	14,800.00	5,574.69	1,550.00	1,174.39	4.127	ES, SF
Pre ongard 001 (Reynolds Killarney 24) - Orig hole - No s	11,895.05	5,538.81	784.61	409.73	2.093	CC
Pre ongard 001 (Reynolds Killarney 24) - Orig hole - No s	11,900.00	5,538.85	784.62	409.66	2.093	ES, SF
Rincon Largo Federal 24 001 - Orig hole - No surveys	14,181.83	5,554.04	736.18	307.95	1.719	Level 3<2.00, CC
Rincon Largo Federal 24 001 - Orig hole - No surveys	14,200.00	5,554.20	736.40	307.69	1.718	Level 3<2.00, ES, SF
Rincon Largo Federal 24 002 - Orig hole - No surveys	12,566.90	5,588.46	140.19	-251.92	0.358	Level 3<2.00, CC, ES, SF

CC - Min centre to center distance or convergent point factor, ES - min ellipse separation

4/23/2026 1:47:45PM

Page 1

COMPASS 5000.17 Build 02

Epic PHS Ex. 6, P. 1



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 041H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 041H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 30 T24N R06W						
Bobby B 040H - Orig hole - rev0	800.00	800.00	20.24	14.67	3.635	CC, ES
Bobby B 040H - Orig hole - rev0	25,410.87	25,631.24	1,185.60	254.69	1.274	Level 3<2.00, SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	119.92	116.51	35.104	CC, ES
Bobby B 042H - Orig hole - rev0	900.00	873.44	156.61	150.52	25.693	SF
Bobby B 043H - Orig hole - rev0	700.00	700.00	100.01	95.16	20.621	CC, ES
Bobby B 043H - Orig hole - rev0	1,000.00	984.65	120.21	113.35	17.513	SF
Bobby B 044H - Orig hole - rev0	5,342.12	5,365.79	77.73	39.69	2.044	CC, ES, SF
Bobby B 045H - Orig hole - rev0	980.09	984.84	26.26	19.28	3.764	CC, ES
Bobby B 045H - Orig hole - rev0	1,000.00	1,004.59	26.48	19.35	3.717	SF
Bobby B 046H - Orig hole - rev0	1,131.70	1,133.77	21.95	14.01	2.763	CC, ES, SF
Bobby B 047H - Orig hole - rev0	500.00	500.00	19.91	16.50	5.828	CC, ES
Bobby B 047H - Orig hole - rev0	20,200.00	20,288.42	1,185.14	494.41	1.716	Level 3<2.00, SF

Offset Design: Sec 14 T24N R07W - Escrito D14-2407 Com 01H - Orig hole - MWD surveys													Offset Site Error:	0.00 ft
Survey Program: 374-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Reference Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
21,300.00	5,654.42	5,617.00	5,585.69	370.83	19.33	72.558	13,455.65	-12,450.22	2,712.95	2,511.39	201.56	13.460		
21,400.00	5,655.26	5,617.00	5,585.69	373.15	19.33	72.558	13,455.65	-12,450.22	2,630.01	2,421.63	208.38	12.621		
21,500.00	5,656.10	5,649.26	5,612.50	375.47	19.50	73.407	13,456.13	-12,468.15	2,547.94	2,334.16	213.78	11.918		
21,600.00	5,656.94	5,680.00	5,636.95	377.78	19.66	74.182	13,456.38	-12,486.77	2,466.79	2,247.41	219.39	11.244		
21,700.00	5,657.79	5,761.27	5,696.17	380.10	20.15	76.054	13,454.19	-12,542.27	2,385.63	2,164.72	220.91	10.799		
21,800.00	5,658.63	5,787.58	5,713.79	382.42	20.33	76.615	13,453.03	-12,561.77	2,305.12	2,078.29	226.82	10.163		
21,900.00	5,659.47	5,807.00	5,726.37	384.74	20.46	77.019	13,452.22	-12,576.54	2,225.58	1,991.86	233.72	9.522		
22,000.00	5,660.31	5,831.24	5,741.51	387.05	20.65	77.509	13,451.42	-12,595.46	2,147.21	1,906.67	240.53	8.927		
22,100.00	5,661.15	5,871.00	5,764.86	389.37	20.96	78.274	13,450.88	-12,627.62	2,070.44	1,824.52	245.93	8.419		
22,200.00	5,661.99	5,871.00	5,764.86	391.69	20.96	78.274	13,450.88	-12,627.62	1,994.61	1,738.26	256.35	7.781		
22,300.00	5,662.83	5,897.78	5,779.45	394.01	21.21	78.756	13,451.02	-12,650.08	1,920.53	1,656.40	264.13	7.271		
22,400.00	5,663.67	5,933.00	5,797.05	396.32	21.52	79.339	13,451.78	-12,680.57	1,848.09	1,576.91	271.18	6.815		
22,500.00	5,664.51	5,933.00	5,797.05	398.64	21.52	79.339	13,451.78	-12,680.57	1,777.46	1,493.85	283.60	6.267		
22,600.00	5,665.36	5,996.00	5,825.12	400.96	22.17	80.283	13,455.24	-12,736.85	1,708.54	1,420.99	287.56	5.942		
22,700.00	5,666.20	6,025.81	5,837.21	403.28	22.52	80.697	13,457.52	-12,763.99	1,641.24	1,344.45	296.79	5.530		
22,800.00	5,667.04	6,215.34	5,887.08	405.60	25.01	82.177	13,462.84	-12,945.81	1,572.66	1,295.59	277.06	5.676		
22,900.00	5,667.88	6,268.79	5,889.27	407.91	25.81	81.995	13,461.06	-12,999.16	1,500.96	1,220.22	280.74	5.346		
23,000.00	5,668.72	6,310.00	5,889.32	410.23	26.44	81.758	13,460.54	-13,040.36	1,430.80	1,143.42	287.38	4.979		
23,100.00	5,669.56	6,372.95	5,888.67	412.55	27.50	81.334	13,460.57	-13,103.31	1,361.77	1,072.37	289.40	4.705		
23,200.00	5,670.40	6,449.94	5,887.64	414.87	28.81	80.745	13,460.23	-13,180.29	1,292.52	1,004.81	287.70	4.493		
23,300.00	5,671.24	6,505.00	5,886.95	417.18	29.79	80.284	13,460.01	-13,235.35	1,223.43	931.94	291.49	4.197		
23,400.00	5,672.09	6,554.93	5,886.50	419.50	30.72	79.849	13,460.66	-13,285.27	1,155.65	858.61	297.04	3.891		
23,500.00	5,672.93	6,624.75	5,886.20	421.82	32.06	79.218	13,463.03	-13,355.05	1,089.30	792.53	296.76	3.671		
23,600.00	5,673.77	6,697.00	5,886.05	424.14	33.48	78.493	13,465.18	-13,427.27	1,022.74	727.65	295.09	3.466		
23,700.00	5,674.61	6,761.00	5,885.16	426.46	34.78	77.721	13,467.65	-13,491.21	957.06	661.32	295.74	3.236		
23,800.00	5,675.45	6,818.45	5,884.08	428.77	35.97	76.939	13,470.89	-13,548.56	892.85	594.10	298.75	2.989		
23,900.00	5,676.29	6,906.37	5,883.37	431.09	37.82	75.653	13,475.93	-13,636.33	828.85	540.92	287.93	2.879		
24,000.00	5,677.13	6,980.60	5,883.20	433.41	39.41	74.403	13,479.38	-13,710.48	764.16	483.11	281.05	2.719		
24,100.00	5,677.97	7,052.44	5,882.40	435.73	40.98	72.940	13,483.48	-13,782.20	700.66	426.91	273.74	2.560		
24,200.00	5,678.81	7,140.09	5,881.80	438.05	42.92	70.808	13,487.56	-13,869.75	636.69	381.24	255.46	2.492		
24,300.00	5,679.66	7,224.54	5,881.32	440.37	44.81	68.201	13,489.77	-13,954.17	571.73	335.21	236.52	2.417		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 041H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 041H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Coordinates are relative to: Bobby B 041H

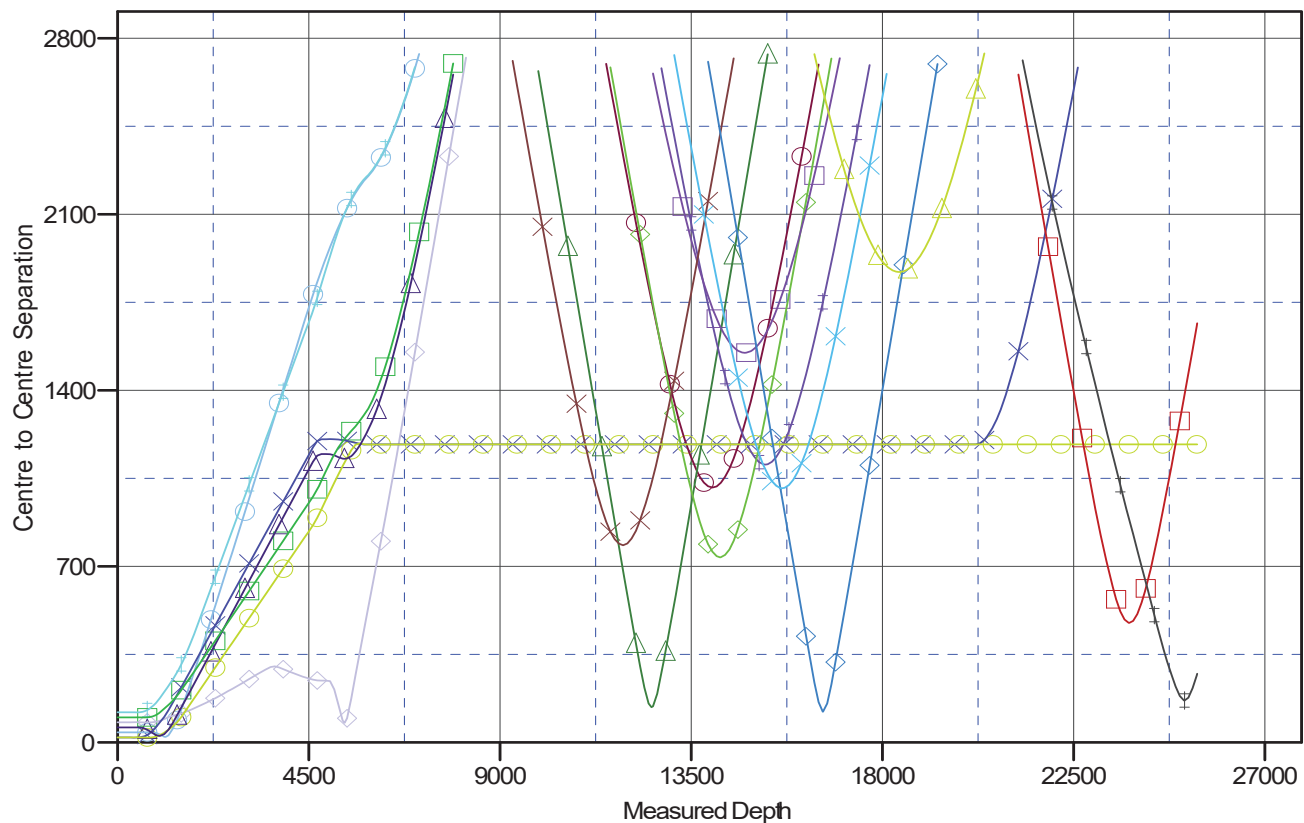
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Central Zone

Central Meridian is -106.25000000

Grid Convergence at Surface is: -0.746°

Ladder Plot



LEGEND

- Grass Federal24 002,Orig hole,hconly,surveyV0 - Rhoni Largo Federal24002,Orig hole,No surveyV0 - Grass Federal24 001R,Orig hole,hconly,surveyV0 - Rhoni Largo Federal24001,Orig hole,No surveyV0 - Pre ongard 001 (Grass Federal24),Orig hole,hconly,surveyV0 - Pre ongard 001 (Rhoni Largo Federal24),Orig hole,No surveyV0	- BobbyB040H,Orig hole,rev0 V0 - BobbyB044H,Orig hole,rev0 V0 - BobbyB047H,Orig hole,rev0 V0 - BobbyB040H,Orig hole,rev0 V0 - BobbyB045H,Orig hole,rev0 V0 - BobbyB042H,Orig hole,rev0 V0	- BobbyB043H,Orig hole,rev0 V0 - Byrd 001,Orig hole,No surveyV0 - Byrd 23006,Orig hole,hconly,surveyV0 - Pre ongard well001,Orig hole,No surveyV0 - Pre ongard 001,Orig hole,No surveyV0 - EastbD14-2407 Com 01H,Orig hole,MWD,surveyV0
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 041H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 041H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Offset Depths are relative to Offset Datum

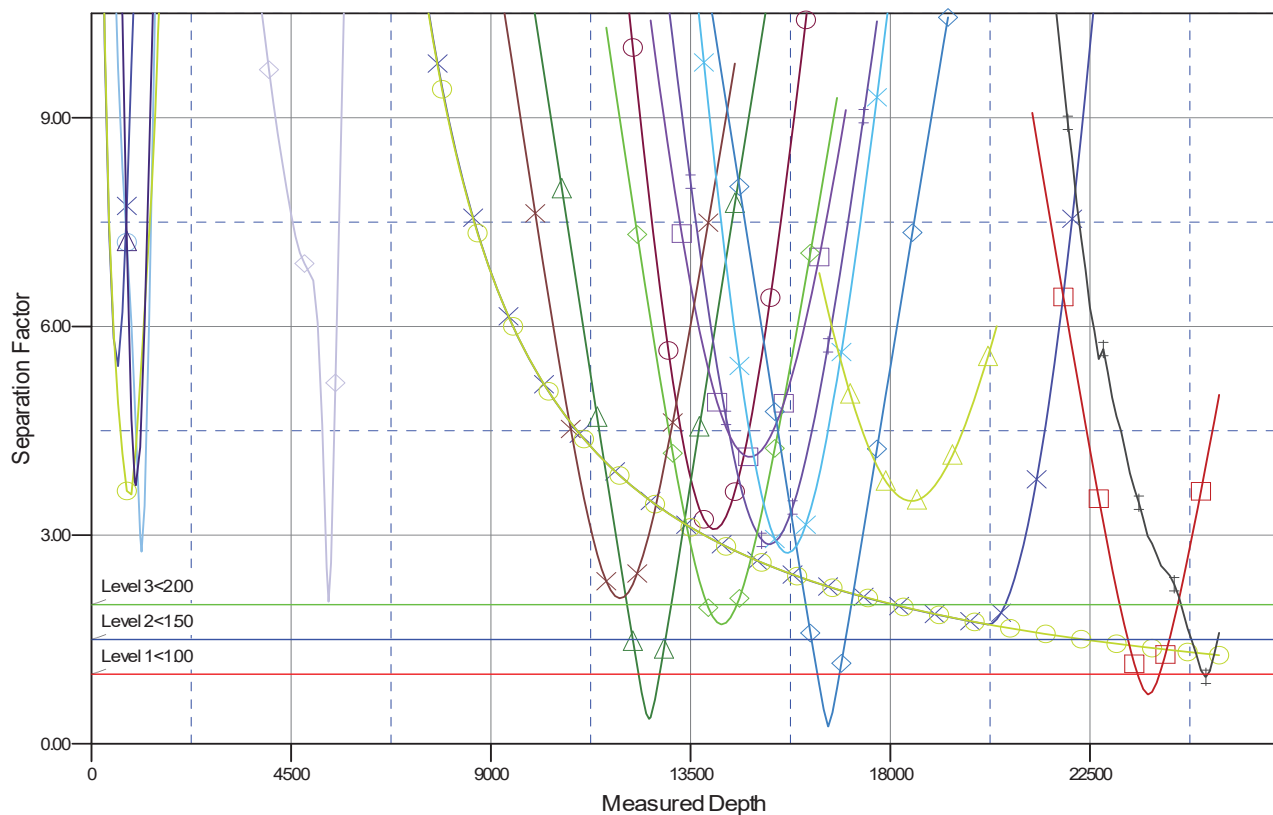
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B 041H

Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.746°

Separation Factor Plot



LEGEND

Grace Federal 24 002, Orig hole, No survey, V0	Bobby B 041H, Orig hole, No survey, V0	Bobby B 043H, Orig hole, No survey, V0
Rincon Largo Federal 24 002, Orig hole, No survey, V0	Bobby B 042H, Orig hole, No survey, V0	Byrd 23006, Orig hole, No survey, V0
Grace Federal 24 001, Orig hole, No survey, V0	Bobby B 044H, Orig hole, No survey, V0	Pre ongard well 001, Orig hole, No survey, V0
Rincon Largo Federal 24 001, Orig hole, No survey, V0	Bobby B 045H, Orig hole, No survey, V0	Pre ongard 001, No survey, No survey, V0
Pre ongard 001 (Grace Federal 24), Orig hole, No survey, V0	Bobby B 046H, Orig hole, No survey, V0	Escribido 24-2407, Orig hole, No survey, V0
Pre ongard 001 (Reynolds 24), Orig hole, No survey, V0	Bobby B 047H, Orig hole, No survey, V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 043H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 043H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,730.55ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/23/2026		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,305.53	rev0 (Orig hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 06 T23N R06W NE Lybrook 262 & 263						
NE Lybrook Com 262 H - Original Hole - MWD surveys	15,305.53	14,630.73	623.44	289.27	1.866	Level 3<2.00, CC, ES, SF
NE Lybrook Com 262 H - Original Hole - rev5	15,305.53	14,686.10	630.41	287.27	1.837	Level 3<2.00, CC, ES, SF
Sec 30 T24N R06W						
Bobby B 040H - Orig hole - rev0	700.00	700.00	79.78	74.93	16.448	CC
Bobby B 040H - Orig hole - rev0	5,551.12	5,570.54	93.48	48.99	2.101	ES, SF
Bobby B 041H - Orig hole - rev0	700.00	700.00	100.01	95.16	20.621	CC, ES
Bobby B 041H - Orig hole - rev0	1,000.00	998.77	121.24	114.28	17.422	SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	19.91	16.50	5.828	CC, ES
Bobby B 042H - Orig hole - rev0	14,100.00	14,499.02	1,227.63	836.19	3.136	SF
Bobby B 044H - Orig hole - rev0	700.00	700.00	19.91	15.06	4.105	CC, ES
Bobby B 044H - Orig hole - rev0	15,305.53	15,096.92	1,223.04	775.34	2.732	SF
Bobby B 045H - Orig hole - rev0	500.00	500.00	39.82	36.41	11.657	CC, ES
Bobby B 045H - Orig hole - rev0	700.00	695.67	49.17	44.34	10.179	SF
Bobby B 046H - Orig hole - rev0	700.00	700.00	59.87	55.02	12.343	CC, ES
Bobby B 046H - Orig hole - rev0	800.00	799.95	62.19	56.63	11.196	SF
Bobby B 047H - Orig hole - rev0	500.00	500.00	119.92	116.51	35.104	CC, ES
Bobby B 047H - Orig hole - rev0	800.00	780.51	143.61	138.14	26.268	SF
Sec 31 T24N R06W						
Bobby B 002 - Orig hole - No surveys	8,695.86	5,535.72	47.08	-230.02	0.170	Level 3<2.00, CC, ES, SF
Sec 32 T24N R06W						
NCRA State 32 001 - Orig hole - Inc only surveys	13,036.26	5,847.59	255.05	-147.43	0.634	Level 3<2.00, CC, ES, SF

Offset Design:	Sec 06 T23N R06W NE Lybrook 262 & 263 - NE Lybrook Com 262 H - Original Hole - MWD surveys										Offset Site Error:	0.00 ft
Survey Program:	414-MWD, 6250-MWD, 16585-MWD										Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum Separation	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
13,800.00	5,477.69	13,556.41	5,761.09	189.45	183.91	88.637	-8,366.10	4,619.59	1,675.03	1,366.56	308.47	5.430
13,900.00	5,477.45	13,623.45	5,761.62	191.75	185.59	88.615	-8,366.70	4,686.63	1,606.14	1,294.33	311.81	5.151
14,000.00	5,477.20	13,714.42	5,761.75	194.05	187.88	88.550	-8,366.91	4,777.60	1,536.79	1,223.56	313.23	4.906
14,100.00	5,476.96	13,805.64	5,762.01	196.36	190.17	88.484	-8,365.83	4,868.81	1,466.41	1,152.20	314.21	4.667
14,200.00	5,476.71	13,877.65	5,762.46	198.66	191.98	88.439	-8,364.33	4,940.80	1,395.39	1,078.73	316.66	4.407

CC - Min centre to center distance or convergent point, ES - min ellipse separation

4/23/2026 2:33:48PM

EXHIBIT

Page 1

7

COMPASS 5000.17 Build 02

Epic PHS Ex. 7, P. 1



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 043H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 043H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Coordinates are relative to: Bobby B 043H

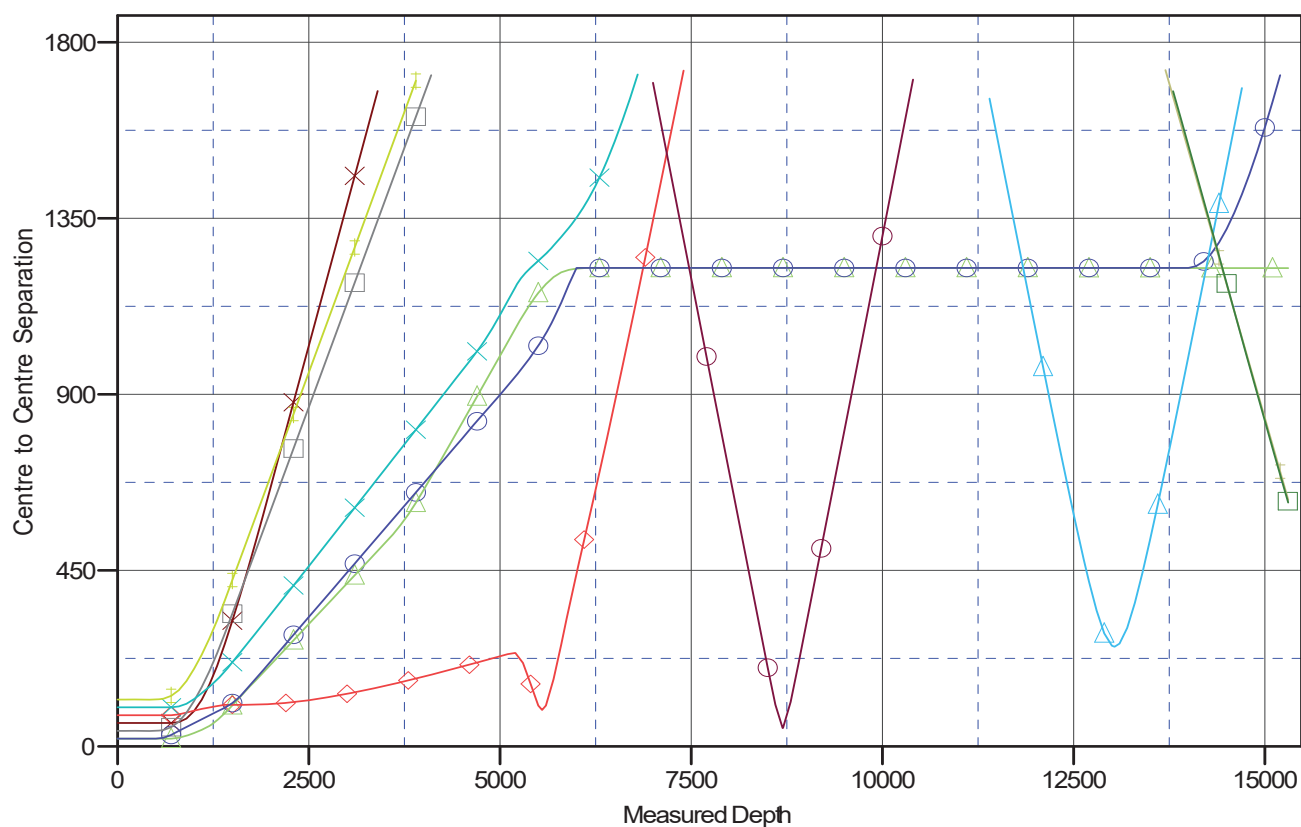
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Central Zone

Central Meridian is -106.25000000

Grid Convergence at Surface is: -0.746°

Ladder Plot



LEGEND

BobbyB046HOrig hole rev0 V0	BobbyB045HOrig hole rev0 V0	NELytrakCom262HOrig hole rev0 V0
BobbyB044HOrig hole rev0 V0	BobbyB041HOrig hole rev0 V0	NELytrakCom262HOrig hole MWD survey V0
BobbyB047HOrig hole rev0 V0	BobbyB042HOrig hole rev0 V0	BobbyB002,Orig hole No survey V0
BobbyB040HOrig hole rev0 V0	NDRA Site 32001, Orig hole, h.com survey V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 043H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 043H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Offset Depths are relative to Offset Datum

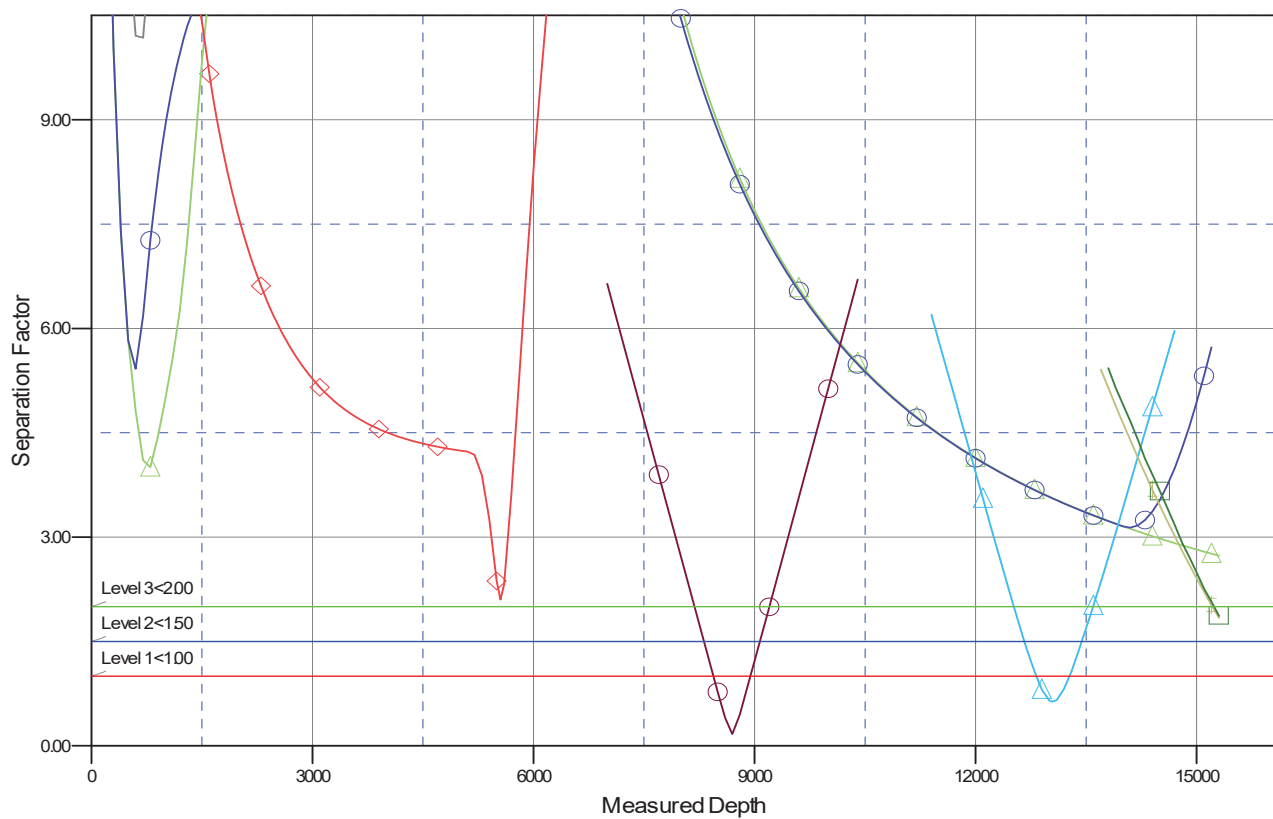
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B 043H

Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.746°

Separation Factor Plot



LEGEND

BobbyB046H.Orig.hole.rev0	BobbyB045H.Orig.hole.rev0	NELytrakCom262 H.Orig.hole.rev0
BobbyB044H.Orig.hole.rev0	BobbyB041H.Orig.hole.rev0	NELytrakCom262 H.Orig.hole.MWD.surveys.v0
BobbyB047H.Orig.hole.rev0	BobbyB042H.Orig.hole.rev0	BobbyB002.Orig.hole.No.surveys.v0
BobbyB040H.Orig.hole.rev0	NORA Site 32 001.Orig.hole.No.surveys.v0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Bobby B 045H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6665+23.5 @ 6688.50ft
Reference Site:	Sec 30 T24N R06W	MD Reference:	RKB=6665+23.5 @ 6688.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bobby B 045H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Orig hole	Database:	DT-Oct0825v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,744.83ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/23/2026		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,447.73	rev0 (Orig hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 30 T24N R06W						
Bobby B 040H - Orig hole - rev0	878.41	876.50	17.34	11.18	2.817	CC, ES, SF
Bobby B 041H - Orig hole - rev0	984.92	980.17	26.26	19.28	3.763	CC, ES
Bobby B 041H - Orig hole - rev0	1,000.00	994.93	26.38	19.30	3.722	SF
Bobby B 042H - Orig hole - rev0	500.00	500.00	59.73	56.32	17.485	CC, ES
Bobby B 042H - Orig hole - rev0	600.00	597.01	64.39	60.27	15.654	SF
Bobby B 043H - Orig hole - rev0	500.00	500.00	39.82	36.41	11.657	CC, ES
Bobby B 043H - Orig hole - rev0	700.00	699.63	49.37	44.51	10.164	SF
Bobby B 044H - Orig hole - rev0	500.00	500.00	19.91	16.50	5.828	CC, ES
Bobby B 044H - Orig hole - rev0	15,448.25	15,361.68	1,223.30	763.15	2.658	SF
Bobby B 046H - Orig hole - rev0	760.36	759.55	9.37	4.08	1.771	Level 3<2.00, CC, ES, SF
Bobby B 047H - Orig hole - rev0	5,465.56	5,453.36	70.10	30.71	1.779	Level 3<2.00, CC, ES, SF
Pre Ongard 001 (I) - Orig hole - No surveys	7,540.66	5,504.88	7.72	-247.85	0.030	Level 3<2.00, CC, ES, SF
Rincon 002 - Orig hole - Inc only surveys	5,800.00	5,498.21	653.39	517.93	4.824	CC
Rincon 002 - Orig hole - Inc only surveys	5,804.45	5,499.37	653.40	517.88	4.821	ES, SF

Offset Design: Sec 30 T24N R06W - Bobby B 040H - Orig hole - rev0													Offset Site Error: 0.00 ft		
Survey Program: Reference		0-MWD					Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0.00 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	27.492	35.44	18.44	39.95						
100.00	100.00	100.00	100.00	0.27	0.27	27.492	35.44	18.44	39.95	39.41	0.55	72.848			
200.00	200.00	200.00	200.00	0.63	0.63	27.492	35.44	18.44	39.95	38.69	1.27	31.574			
300.00	300.00	300.00	300.00	0.99	0.99	27.492	35.44	18.44	39.95	37.97	1.98	20.155			
400.00	400.00	400.00	400.00	1.35	1.35	27.492	35.44	18.44	39.95	37.26	2.70	14.802			
500.00	500.00	500.00	500.00	1.71	1.71	27.492	35.44	18.44	39.95	36.54	3.42	11.695			
600.00	599.95	599.95	599.95	2.07	2.07	29.365	35.44	18.44	37.65	33.52	4.13	9.108			
700.00	699.63	699.63	699.63	2.43	2.42	36.591	35.44	18.44	31.05	26.20	4.86	6.395			
800.00	798.77	798.77	798.77	2.80	2.78	57.429	35.44	18.44	21.97	16.39	5.58	3.937			
878.41	875.94	876.50	876.48	3.11	3.05	99.102	34.68	17.12	17.34	11.18	6.15	2.817	CC, ES, SF		
900.00	897.08	897.65	897.61	3.20	3.12	114.690	34.19	16.28	17.95	11.64	6.31	2.846			
1,000.00	994.93	994.29	993.96	3.61	3.45	151.835	30.51	9.89	32.50	25.51	6.99	4.648			
1,100.00	1,092.67	1,087.45	1,086.38	4.05	3.78	164.778	24.11	0.19	58.93	51.29	7.64	7.711			
1,200.00	1,190.35	1,177.21	1,174.82	4.49	4.11	174.975	14.69	-11.88	93.29	85.03	8.26	11.291			

CC - Min centre to center distance or convergent point, ES - min ellipse separation

4/23/2026 2:53:14PM

EXHIBIT
Page 1

8

COMPASS 5000.17 Build 02

Epic PHS Ex. 8, P. 1



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Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Offset Depths are relative to Offset Datum

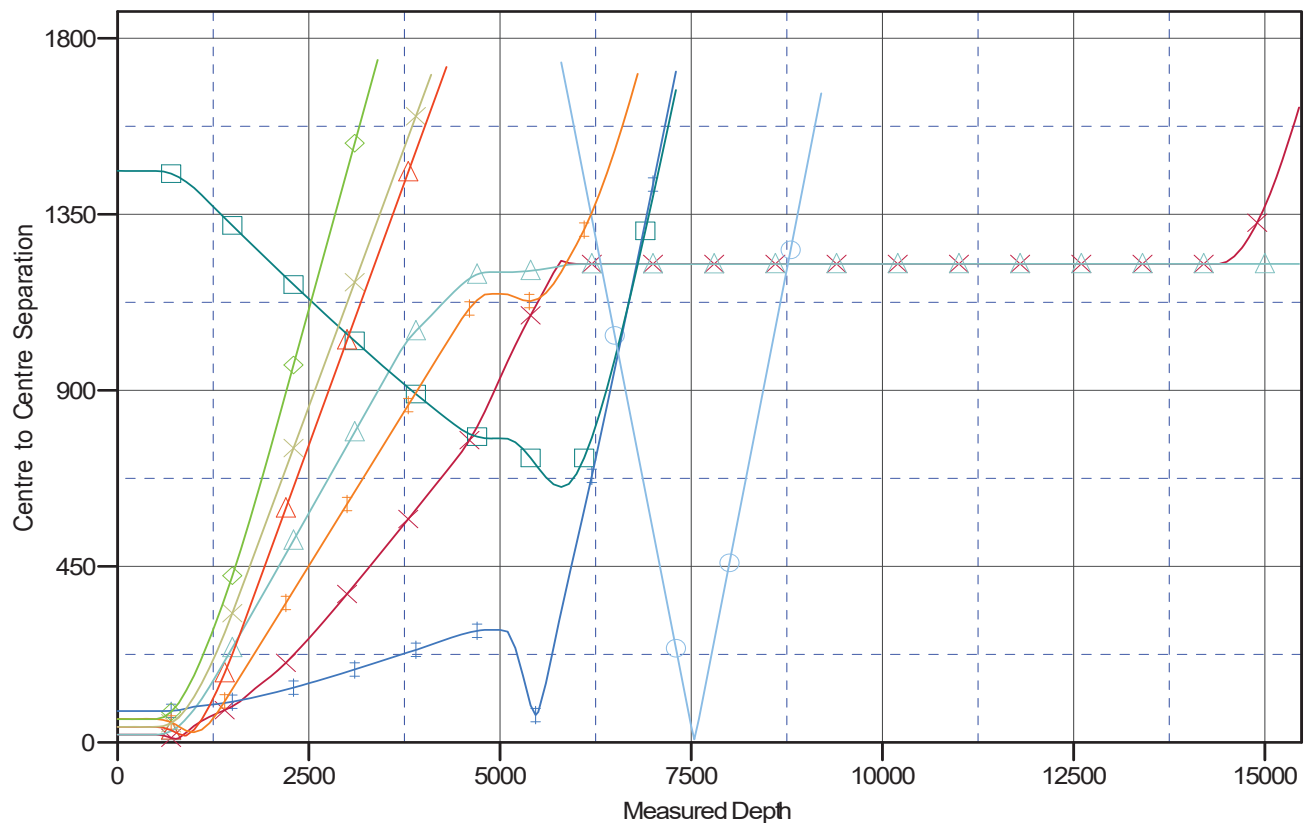
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B 045H

Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.746°

Ladder Plot



LEGEND

BobbyB046H Orig hole rev0 V0	Rhinon 002 Orig hole hcn only survey V0	BobbyB041H Orig hole rev0 V0
BobbyB044H Orig hole rev0 V0	BobbyB040H Orig hole rev0 V0	BobbyB042H Orig hole rev0 V0
BobbyB047H Orig hole rev0 V0	Pre Origad 001 (I) Orig hole No survey V0	BobbyB043H Orig hole rev0 V0

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Reference Depths are relative to RKB=6665+23.5 @ 6688.50ft

Offset Depths are relative to Offset Datum

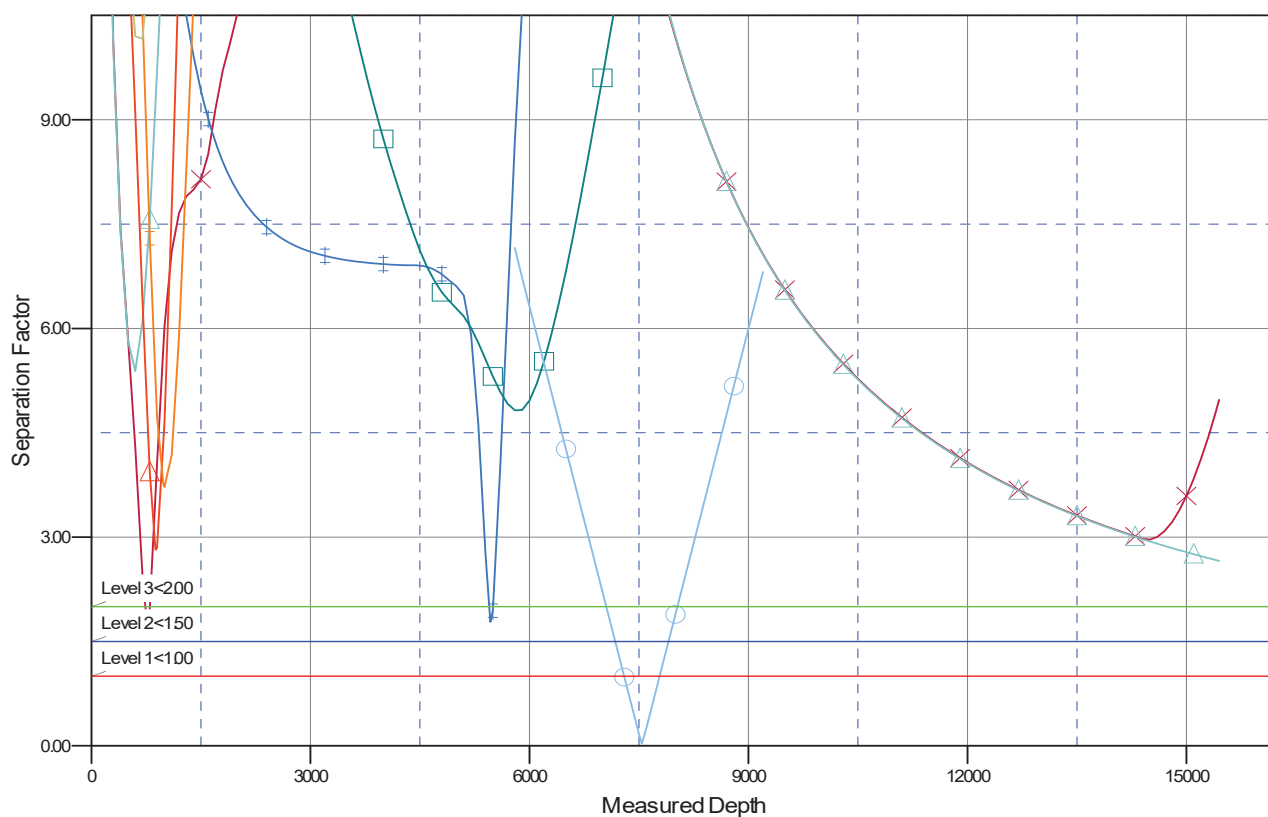
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B 045H

Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.746°

Separation Factor Plot



LEGEND

BobbyB046HOrig hole/rev0 V0	Rhsan 002.Orig hole/hcon/survey V0	BobbyB041HOrig hole/rev0 V0
BobbyB044HOrig hole/rev0 V0	BobbyB040HOrig hole/rev0 V0	BobbyB042HOrig hole/rev0 V0
BobbyB047HOrig hole/rev0 V0	Pre-Origard 001 (I).Orig hole/No survey V0	BobbyB043HOrig hole/rev0 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



[REDACTED]

[REDACTED]

From: Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>
Sent: Monday, August 18, 2025 3:38 PM
To: Alex Campbell <ACampbell@enduringresources.com>; John Thompson <john@walsheng.net>
Cc: Wrinkle, Justin, EMNRD <Justin.Wrinkle@emnrd.nm.gov>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Garcia, John, EMNRD <JohnA.Garcia@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>
Subject: Drilling Communication

Greetings Alex,

It has been brought to OCD's attention that an Enduring well communicated with an Epic Energy LLC (representative attached to email) well during drilling operations. It is also OCD's understanding that Enduring is planning on continuing with the completion of the identified well, without further investigation or actions taken. Be advised that 19.15.16.17 NMAC (below) requires any operator that potentially has a negative impact to notify the OCD and take appropriate actions which may include plugging the offending well.

Because communication during drilling has already been identified, I advise working with Epic prior to completing the identified well/s. Please reach out if you have any questions.

**19.15.16.17 COMPLETION OPERATIONS, SHOOTING AND
CHEMICAL TREATMENT OF WELLS:**

A. If completing, shooting, fracturing or treating a well has the potential to negatively impact the producing formation, injection interval, communicates with other strata, casing and casing seat or may create underground waste or contaminate fresh water, the operator shall within five working days notify the division in writing and proceed with diligence to use the appropriate method and means for rectifying the loss of containment or any damage.

(1) Diligence shall include but is not limited to verifying casing integrity and isolation of strata. This can include pressure testing in accordance with 19.15.25 NMAC, performing casing integrity logs, cement bond logs and any other means determined necessary by the operator or required by the division.

(2) If damage from the shooting, fracturing or treating of a well has the potential to impact surface or groundwater, then the operator will disclose to the division all additives used in the applicable fluid stream including trade secret additives as necessary to identify all potential contaminants. If trade secret chemical information is received by the division,

the division will hold that information confidential as required by Section 14-2-1 NMSA 1978. Based on the chemicals identified by the operator and the division the operator will test for all identified potentially harmful chemicals and will use a third party, verified laboratory to conduct any appropriate testing necessary to verify any potential impact. The testing may also include but is not limited to PFAS, chemicals listed in 20.6.2 NMAC and chemicals listed in Subparagraph (e) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC. The division may require more robust sampling than what is proposed by the operator if deemed necessary due to the nature of the potential chemicals.

(3) If it is deemed there is an impact to surface or groundwater the operator shall report the impact as a major release in accordance with 19.15.29 NMAC and respond accordingly.

B. If completing, shooting, fracturing or chemical treating results in the well's irreparable injury the division may require the operator to properly plug and abandon the well and take any necessary actions to mitigate any results impacts.

Thank You

Brandon Powell
Deputy Director
New Mexico Oil Conservation
(505) 320-0200



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

QUESTIONS

Action 622828

QUESTIONS

Operator: Permian Line Service, LLC PO Box 1111 Hobbs, NM 88241	OGRID: 331305
	Action Number: 622828
	Action Type: [HEAR] Prehearing Statement (PREHEARING)

QUESTIONS

Testimony	
Please assist us by provide the following information about your testimony.	
Number of witnesses	1
Testimony time (in minutes)	45