

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-38266	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number #726H

II. ¹⁰ Surface Location

UL or lot no. M	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 561'	North/South Line South	Feet from the 636'	East/West line West	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. E	Section 15	Township 23N	Range 9W	Lot Idn	Feet from the 2487'	North/South line North	Feet from the 170'	East/West line West	County San Juan
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 4/25/2022		¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date	

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC	O
373888	HARVEST FOUR CORNERS. LLC	G

IV. Well Completion Data

²¹ Spud Date 12/13/2021	²² Ready Date 5/4/2022	²³ TD 14739' MD 4732' TVD	²⁴ PBDT 14624.8' MD 4735.4' TVD	²⁵ Perforations ~ 5208'-14620' MD ~ 4670'-4735' TVD	²⁶ DHC, MC R-14051	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		360' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		2689' MD		639 sx- surface
8-1/2"		5-1/2",17#, P-110		14728.8' MD		2029 sx- surface

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Kayla White</i>	OIL CONSERVATION DIVISION Approved by: <i>PATRICIA MARTINEZ</i>				
Printed name: Kayla White	Title: <i>PETROLEUM SPECIALIST</i>				
Title: Associate Consultant, Environmental Engineer	Approval Date: <i>4/27/2022</i>				
E-mail Address: Kayla.N.White@wsp.com	<i>RT EXPIRES 7/26/2022</i>				
Date: 3/24/2022					



ENDURING RESOURCES IV LLC

March 22, 2022

Re: W LYBROOK UNIT 726H- 30-045-38266

Pursuant to NMOC rule 19.15.7.16(C) request is herein made to keep all data and accompanying attachments contained in form C-105 confidential.

Sincerely,

A handwritten signature in blue ink, appearing to read "Heather Huntington".

Heather Huntington
Permitting Technician
Enduring Resources, LLC.
hhuntington@enduringresources.com

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38266		² Pool Code 98157		³ Pool Name LYBROOK MANCOS W	
⁴ Property Code 321259		⁵ Property Name W LYBROOK UNIT			⁶ Well Number 726H
⁷ GRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6747'

¹⁰ Surface Location

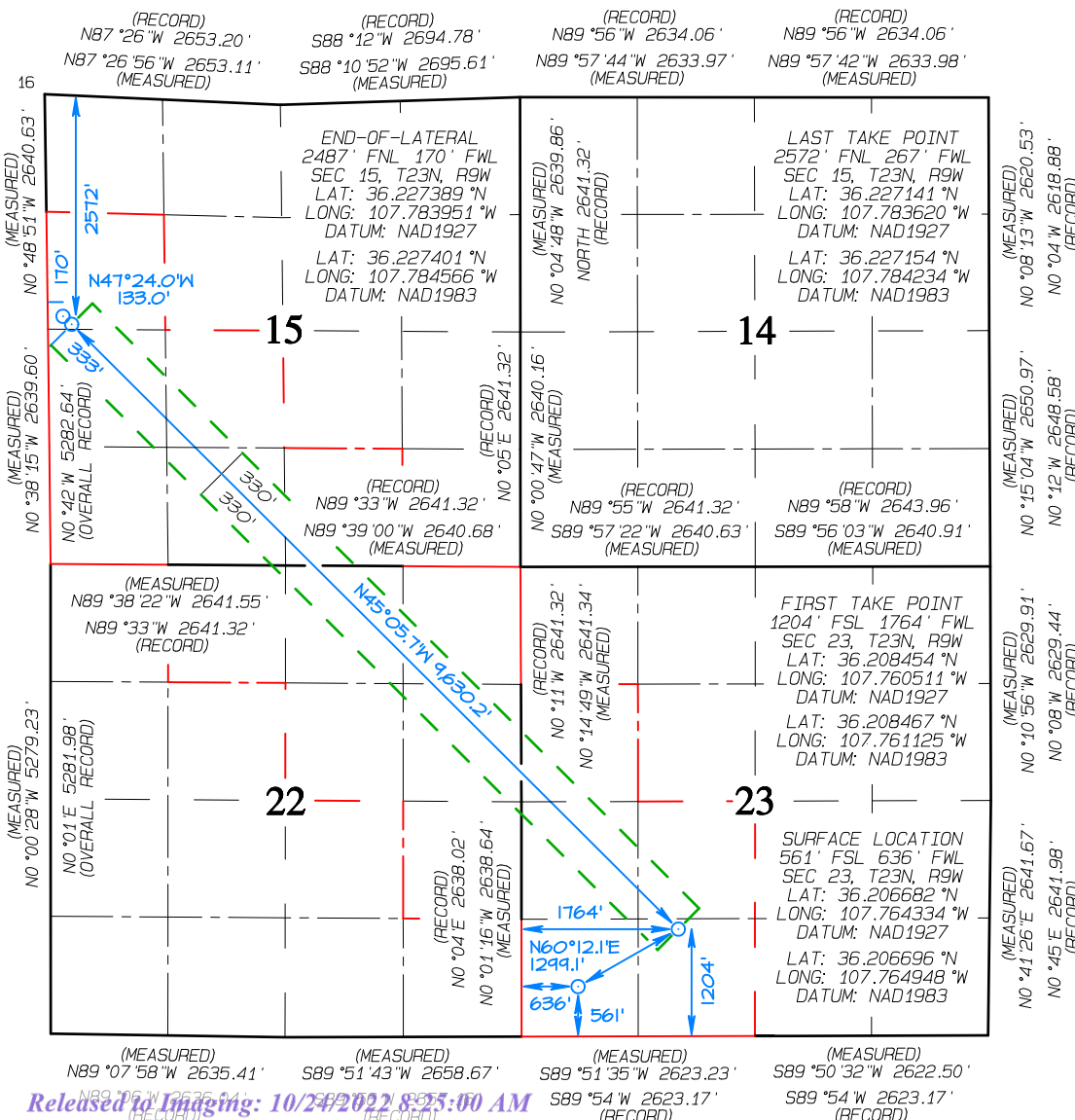
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	23N	9W		561	SOUTH	636	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	15	23N	9W		2487	NORTH	170	WEST	SAN JUAN

¹² Dedicated Acres 680.00		SW/4 NW/4, SW/4, SW/4 SE/4 Section 15 NE/4 NW/4, NE/4, NE/4 SE/4 Section 22 SW/4 NW/4, SW/4 - Section 23		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres	
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NO ALLOWABLE WILL BE ASSIGNED
TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS
BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

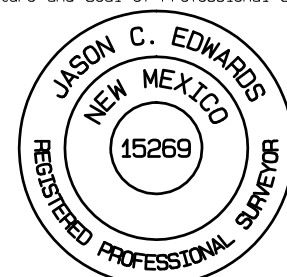
Heather Huntington 3/18/22
Signature Date
Heather Huntington
Printed Name
hhuntington@enduringresources.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MARCH 15, 2022
Survey Date: SEPTEMBER 10, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT

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⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6747'

¹⁰ Surface Location

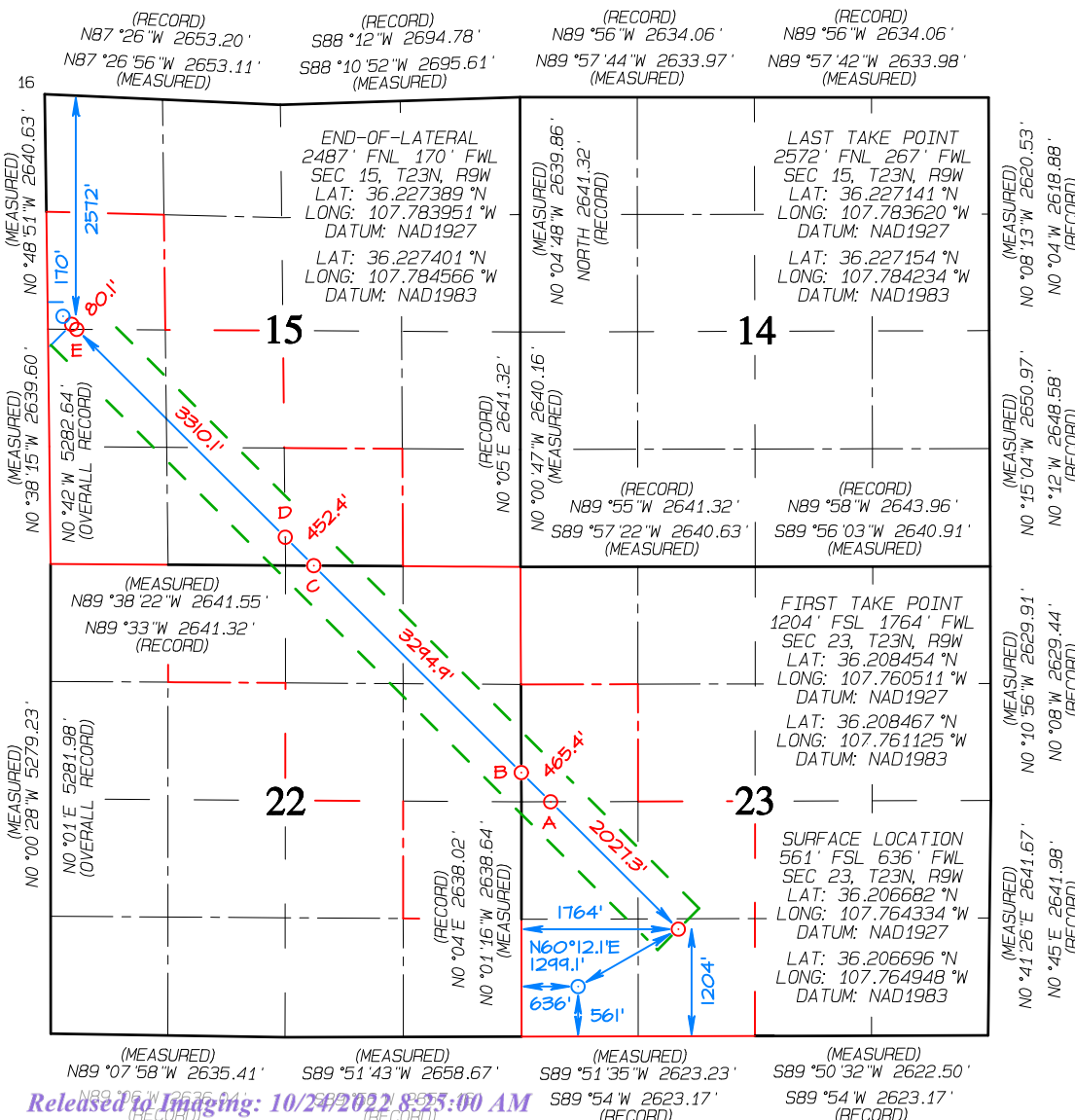
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	15	23N	9W		2487	NORTH	170	WEST	SAN JUAN

¹² Dedicated Acres 680.00	SW/4 NW/4, SW/4, SW/4 SE/4 Section 15 NE/4 NW/4, NE/4, NE/4 SE/4 Section 22 SW/4 NW/4, SW/4 - Section 23	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jason C. Edwards 3/18/22
Signature Date
30-045-38266
Printed Name
hhuntington@enduringresources.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MARCH 15, 2022
Survey Date: SEPTEMBER 10, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

(A) 2639' FSL 328' FWL
SEC 23, T23N, R9W
LAT: 36.212388 °N
LONG: 107.765375 °W
DATUM: NAD1927

LAT: 36.212401 °N
LONG: 107.765989 °W
DATUM: NAD1983

(B) 2312' FNL 0' FEL
SEC 22, T23N, R9W
LAT: 36.213291 °N
LONG: 107.766491 °W
DATUM: NAD1927

LAT: 36.213304 °N
LONG: 107.767105 °W
DATUM: NAD1983

(C) 0' FNL 2324' FEL
SEC 22, T23N, R9W
LAT: 36.219685 °N
LONG: 107.774398 °W
DATUM: NAD1927

LAT: 36.219698 °N
LONG: 107.775012 °W
DATUM: NAD1983

(D) 317' FSL 2641' FWL
SEC 15, T23N, R9W
LAT: 36.220563 °N
LONG: 107.775483 °W
DATUM: NAD1927

LAT: 36.220576 °N
LONG: 107.776098 °W
DATUM: NAD1983

(E) 2639' FSL 323' FWL
SEC 15, T23N, R9W
LAT: 36.226986 °N
LONG: 107.783427 °W
DATUM: NAD1927

LAT: 36.226999 °N
LONG: 107.784042 °W
DATUM: NAD1983

Enduring Resources LLC

San Juan County

New Mexico NAD83 NM W

W Lybrook 726 Pad (726 728 729 760 & 761)

W Lybrook Unit No. 726H

Sidetrack 01

Surveys Sidetrack 01

06-Mar-2022 (11961)

MD	Inc	Azimuth	TVD	N/S	E/W	VS	DLS	Y	X	Latitude	Longitude	SS	TVD	Comment
0	0	0	0	0	0	0	0	0	1894542	2743266	36.2067	-107.765	-6775	
432	0.66	274.63	431.99	0.2	-2.48	1.9	0.15	1894542	2743264	36.2067	-107.765	-6343.01		
493	0.88	271.2	492.98	0.24	-3.3	2.5	0.37	1894542	2743263	36.2067	-107.765	-6282.02		
585	1.32	64.75	584.98	0.71	-3.05	2.65	2.33	1894543	2743263	36.2067	-107.765	-6190.02		
676	1.54	74.33	675.95	1.48	-0.92	1.7	0.36	1894544	2743265	36.2067	-107.765	-6099.05		
766	1.54	72.83	765.92	2.17	1.4	0.54	0.04	1894544	2743268	36.2067	-107.765	-6009.08		
857	1.14	76.52	856.89	2.74	3.45	-0.5	0.45	1894545	2743270	36.2067	-107.765	-5918.11		
949	0.97	71.78	948.88	3.2	5.08	-1.33	0.21	1894545	2743271	36.2067	-107.765	-5826.12		
1040	0.88	66.68	1039.86	3.71	6.45	-1.94	0.13	1894546	2743273	36.20671	-107.765	-5735.14		
1130	2.94	77.05	1129.81	4.5	9.33	-3.42	2.31	1894547	2743276	36.20671	-107.765	-5645.19		
1224	6.37	72.22	1223.49	6.64	16.65	-7.08	3.67	1894549	2743283	36.20671	-107.765	-5551.51		
1318	9.4	73.71	1316.59	10.38	28.99	-13.16	3.23	1894552	2743295	36.20672	-107.765	-5458.41		
1412	12.35	75.29	1408.89	15.09	46.08	-21.92	3.15	1894557	2743312	36.20674	-107.765	-5366.11		
1506	15.51	77.05	1500.11	20.46	68.06	-33.66	3.39	1894562	2743334	36.20675	-107.765	-5274.89		
1600	18.24	78.19	1590.06	26.29	94.71	-48.38	2.93	1894568	2743361	36.20677	-107.765	-5184.94		
1694	21.09	76.52	1678.57	33.24	125.57	-65.28	3.09	1894575	2743392	36.20679	-107.765	-5096.43		
1788	23.77	76.7	1765.45	41.55	160.45	-84.08	2.85	1894584	2743427	36.20681	-107.764	-5009.55		
1882	24.17	77.58	1851.34	50.04	197.68	-104.4	0.57	1894592	2743464	36.20683	-107.764	-4923.66		
1977	24.61	77.49	1937.86	58.51	235.99	-125.5	0.46	1894601	2743502	36.20686	-107.764	-4837.14		
2071	24.61	78.11	2023.32	66.78	274.25	-146.7	0.27	1894609	2743541	36.20688	-107.764	-4751.68		
2165	24.57	78.11	2108.8	74.84	312.53	-168.07	0.04	1894617	2743579	36.2069	-107.764	-4666.2		
2260	24.57	78.11	2195.2	82.98	351.18	-189.65	0	1894625	2743617	36.20692	-107.764	-4579.8		
2354	24.92	78.63	2280.57	90.91	389.72	-211.29	0.44	1894633	2743656	36.20694	-107.764	-4494.43		
2449	25	78.46	2366.69	98.87	429.01	-233.44	0.11	1894641	2743695	36.20697	-107.763	-4408.31		
2543	24.57	78.63	2452.03	106.7	467.63	-255.22	0.46	1894649	2743734	36.20699	-107.763	-4322.97		
2636	23.64	77.67	2536.92	114.49	504.8	-275.99	1.09	1894657	2743771	36.20701	-107.763	-4238.08		
2692	23.47	78.63	2588.26	119.09	526.7	-288.23	0.75	1894661	2743793	36.20702	-107.763	-4186.74		
2786	23.07	77.84	2674.61	126.66	563.06	-308.58	0.54	1894669	2743829	36.20704	-107.763	-4100.39		
2880	22.5	76.52	2761.28	134.73	598.55	-327.97	0.81	1894677	2743865	36.20706	-107.763	-4013.72		
2993	21.36	74.77	2866.1	145.18	639.44	-349.49	1.16	1894687	2743906	36.20709	-107.763	-3908.9		
3088	24.17	75.38	2953.69	154.63	674.96	-367.92	2.97	1894697	2743941	36.20712	-107.763	-3821.31		
3183	23.86	74.15	3040.47	164.79	712.26	-387.12	0.62	1894707	2743979	36.20715	-107.763	-3734.53		
3277	23.07	73.01	3126.69	175.36	748.16	-405.03	0.97	1894717	2744014	36.20718	-107.762	-3648.31		
3372	24.13	77.4	3213.75	185.04	784.92	-424.18	2.16	1894727	2744051	36.2072	-107.762	-3561.25		
3466	22.41	77.31	3300.1	193.17	821.15	-444.05	1.83	1894735	2744087	36.20723	-107.762	-3474.9		
3560	24.08	79.78	3386.47	200.51	857.51	-464.57	2.06	1894743	2744124	36.20725	-107.762	-3388.53		
3655	22.02	78.81	3473.88	207.4	894.06	-485.54	2.2	1894749	2744160	36.20726	-107.762	-3301.12		
3749	25.05	78.72	3560.05	214.72	930.87	-506.39	3.22	1894757	2744197	36.20728	-107.762	-3214.95		
3843	21.53	76.17	3646.38	222.74	967.14	-526.38	3.89	1894765	2744233	36.20731	-107.762	-3128.62		
3938	22.94	73.01	3734.32	232.31	1001.78	-544.09	1.95	1894774	2744268	36.20733	-107.762	-3040.68		
4032	22.06	71.6	3821.16	243.24	1036.05	-560.6	1.1	1894785	2744302	36.20736	-107.761	-2953.84		
4126	20.52	70.37	3908.75	254.35	1068.32	-575.57	1.71	1894796	2744335	36.20739	-107.761	-2866.25		
4190	17.49	68.44	3969.25	261.65	1087.83	-584.2	4.83	1894804	2744354	36.20741	-107.761	-2805.75		
4221	17.71	67.65	3998.8	265.15	1096.53	-587.87	1.05	1894807	2744363	36.20742	-107.761	-2776.2	KOP	
4253	20.48	66.94	4029.04	269.2	1106.18	-591.84	8.69	1894811	2744372	36.20743	-107.761	-2745.96		
4284	22.72	61.23	4057.86	274.21	1116.42	-595.54	9.9	1894816	2744383	36.20745	-107.761	-2717.14		
4316	23.07	51.04	4087.35	281.13	1126.72	-597.92	12.42	1894823	2744393	36.20747	-107.761	-2687.65		
4347	24.65	40.58	4115.71	289.86	1135.65	-598.06	14.55	1894832	2744402	36.20749	-107.761	-2659.29		
4379	26.59	31.7	4144.58	301.03	1143.76	-595.9	13.43	1894843	2744410	36.20752	-107.761	-2630.42		
4410	27.64	25.55	4172.18	313.42	1150.51	-591.91	9.65	1894855	2744417	36.20755	-107.761	-2602.82		
4442	28.83	17.99	4200.38	327.46	1156.09	-585.93	11.77	1894869	2744422	36.20759	-107.761	-2574.62		
4473	29.93	11.31	4227.4	342.16	1159.92	-578.25	11.15	1894884	2744426	36.20763	-107.761	-2547.6	30°	
4504	30.5	4.8	4254.19	357.58	1162.09	-568.88	10.72	1894900	2744428	36.20768	-107.761	-2520.81		
4536	31.07	358.04	4281.69	373.93	1162.49	-557.6	10.95	1894916	2744429	36.20772	-107.761	-2493.31		
4567	32.74	353.91	4308.01	390.27	1161.33	-545.22	8.86	1894932	2744428	36.20777	-107.761	-2466.99		
4599	34.72	351.71	4334.62	407.89	1159.1	-531.18	7.27	1894950	2744425	36.20781	-107.761	-2440.38	Tie into ori	
4630	33.75	359.44	4360.26	425.25	1157.74	-517.95	14.36	1894967	2744424	36.20786	-107.761	-2414.74		
4662	35.51	2.34	4386.6	443.42	1158.03	-505.3	7.53	1894985	2744424	36.20791	-107.761	-2388.4		
4693	38.06	3.4	4411.42	461.96	1158.97	-492.86	8.48	1895004	2744425	36.20796	-107.761	-2363.58		
4725	40.83	2.43	4436.13	482.26	1159.99	-479.23	8.87	1895024	2744426	36.20802	-107.761	-2338.87		
4756	43.29	358.83	4459.15	503.02	1160.21	-464.7	11.11	1895045	2744426	36.20808	-107.761	-2315.85		
4788	44.87	354.26	4482.14	525.23	1158.85	-448.04	11.09	1895067	2744425	36.20814	-107.761	-2292.86		
4820	48.03	349.95	4504.19	548.18	1155.65	-429.54	13.88	1895090	2744422	36.2082	-107.761	-2270.81		
4851	51.11	346.88	4524.3	571.29	1150.9	-409.84	12.47	1895113	2744417	36.20826	-107.761	-2250.7		

4883	54.01	344.24	4543.75	595.89	1144.55	-387.97	11.18	1895138	2744411	36.20833	-107.761	-2231.25
4914	57	341.07	4561.31	620.26	1136.92	-365.34	12.81	1895162	2744403	36.2084	-107.761	-2213.69
4946	59.41	337.65	4578.17	645.7	1127.33	-340.56	11.8	1895188	2744394	36.20847	-107.761	-2196.83 60°
4978	61.17	333.43	4594.03	670.99	1115.82	-314.54	12.7	1895213	2744382	36.20854	-107.761	-2180.97
5009	62.62	330.62	4608.64	695.13	1102.99	-288.4	9.26	1895237	2744369	36.2086	-107.761	-2166.36
5041	64.42	329.39	4622.91	719.93	1088.67	-260.73	6.59	1895262	2744355	36.20867	-107.761	-2152.09 Tangent
5072	67.63	328.33	4635.5	744.17	1074.02	-233.24	10.82	1895286	2744340	36.20874	-107.761	-2139.5
5104	71.32	325.87	4646.72	769.32	1057.74	-203.94	13.59	1895311	2744324	36.20881	-107.761	-2128.28
5135	74.27	322.44	4655.89	793.32	1040.4	-174.71	14.22	1895335	2744307	36.20887	-107.761	-2119.11
5167	76.82	319.1	4663.88	817.31	1020.8	-143.89	12.87	1895359	2744287	36.20894	-107.761	-2111.12
5198	79.45	315.41	4670.26	839.58	1000.21	-113.58	14.41	1895382	2744266	36.209	-107.762	-2104.74 POE
5229	82.53	313.3	4675.11	860.98	978.32	-82.97	12	1895403	2744245	36.20906	-107.762	-2099.89
5261	85.61	313.04	4678.42	882.75	955.11	-51.16	9.66	1895425	2744221	36.20912	-107.762	-2096.58
5292	87.85	313.57	4680.19	903.98	932.59	-20.23	7.42	1895446	2744199	36.20918	-107.762	-2094.81
5355	90.13	314.44	4681.3	947.74	887.29	42.75	3.87	1895490	2744154	36.2093	-107.762	-2093.7 90°
5450	91.97	315.15	4679.56	1014.66	819.89	137.72	2.08	1895557	2744086	36.20948	-107.762	-2095.44
5545	88.77	311.63	4678.94	1079.9	750.87	232.66	5.01	1895622	2744017	36.20966	-107.762	-2096.06
5639	87.98	310.84	4681.61	1141.83	680.21	326.42	1.19	1895684	2743946	36.20983	-107.763	-2093.39
5734	87.28	314	4685.54	1205.85	610.15	421.23	3.4	1895748	2743876	36.21001	-107.763	-2089.46
5829	87.23	313.47	4690.09	1271.45	541.59	516.09	0.56	1895813	2743808	36.21019	-107.763	-2084.91
5924	89.47	313.92	4692.82	1337.05	472.93	611.02	2.4	1895879	2743739	36.21037	-107.763	-2082.18
6018	89.34	312.77	4693.8	1401.56	404.58	704.98	1.23	1895944	2743671	36.21055	-107.764	-2081.2
6113	89.21	312.16	4695	1465.7	334.5	799.88	0.66	1896008	2743601	36.21072	-107.764	-2080
6207	88.86	311.02	4696.58	1528.08	264.21	893.69	1.27	1896070	2743530	36.21089	-107.764	-2078.42
6301	89.74	314.8	4697.73	1592.07	195.38	987.61	4.13	1896134	2743462	36.21107	-107.764	-2077.27
6395	89.69	314.62	4698.2	1658.2	128.58	1081.6	0.2	1896200	2743395	36.21125	-107.765	-2076.8
6489	89.21	313.83	4699.1	1723.76	61.22	1175.59	0.98	1896266	2743327	36.21143	-107.765	-2075.9
6584	90.13	316.11	4699.65	1790.89	-5.98	1270.58	2.59	1896333	2743260	36.21162	-107.765	-2075.35
6678	89.91	315.76	4699.62	1858.43	-71.36	1364.57	0.44	1896400	2743195	36.2118	-107.765	-2075.38
6773	89.34	315.5	4700.24	1926.34	-137.79	1459.56	0.66	1896468	2743128	36.21199	-107.765	-2074.76
6867	88.99	314.97	4701.61	1993.07	-203.98	1553.55	0.68	1896535	2743062	36.21217	-107.766	-2073.39
6961	91.54	315.85	4701.17	2060.01	-269.96	1647.54	2.87	1896602	2742996	36.21236	-107.766	-2073.83
7056	91.27	315.76	4698.85	2128.1	-336.16	1742.5	0.3	1896670	2742930	36.21254	-107.766	-2076.15
7151	91.01	315.32	4696.96	2195.89	-402.69	1837.48	0.54	1896738	2742864	36.21273	-107.766	-2078.04
7245	90.44	314.88	4695.77	2262.47	-469.04	1931.47	0.77	1896805	2742797	36.21291	-107.767	-2079.23
7339	90.7	315.24	4694.83	2329.01	-535.43	2025.46	0.47	1896871	2742731	36.2131	-107.767	-2080.17
7434	90.53	314.62	4693.81	2396.09	-602.68	2120.46	0.68	1896938	2742664	36.21328	-107.767	-2081.19
7529	90.62	314.09	4692.86	2462.51	-670.61	2215.45	0.57	1897005	2742596	36.21346	-107.767	-2082.14
7623	90.53	313.13	4691.91	2527.34	-738.66	2309.41	1.03	1897069	2742528	36.21364	-107.767	-2083.09
7718	90.62	312.69	4690.96	2592.01	-808.24	2404.34	0.47	1897134	2742458	36.21382	-107.768	-2084.04
7812	89.47	314.62	4690.89	2656.9	-876.25	2498.31	2.39	1897199	2742390	36.214	-107.768	-2084.11
7907	90.53	314.27	4690.89	2723.42	-944.07	2593.31	1.18	1897265	2742322	36.21418	-107.768	-2084.11
8002	89.38	310.23	4690.96	2787.28	-1014.37	2688.17	4.42	1897329	2742252	36.21435	-107.768	-2084.04
8096	88.73	311.54	4692.51	2848.8	-1085.43	2781.92	1.56	1897391	2742181	36.21452	-107.769	-2082.49
8190	89.87	313.57	4693.66	2912.36	-1154.66	2875.82	2.48	1897454	2742112	36.2147	-107.769	-2081.34
8285	89.17	311.1	4694.46	2976.33	-1224.88	2970.7	2.7	1897518	2742041	36.21487	-107.769	-2080.54
8379	90.75	315.15	4694.52	3040.57	-1293.47	3064.63	4.62	1897583	2741973	36.21505	-107.769	-2080.48
8473	90.84	314.09	4693.22	3106.59	-1360.37	3158.62	1.13	1897649	2741906	36.21523	-107.77	-2081.78
8567	90.83	318.48	4691.85	3174.51	-1425.31	3252.56	4.67	1897717	2741841	36.21542	-107.77	-2083.15
8661	91.19	317.87	4690.19	3244.55	-1487.98	3346.4	0.75	1897787	2741778	36.21561	-107.77	-2084.81
8756	91.23	317.17	4688.18	3314.59	-1552.12	3441.29	0.74	1897857	2741714	36.2158	-107.77	-2086.82
8850	91.54	316.47	4685.91	3383.12	-1616.43	3535.21	0.81	1897925	2741650	36.21599	-107.77	-2089.09
8945	89.6	316.47	4684.97	3451.99	-1681.85	3630.17	2.04	1897994	2741584	36.21618	-107.771	-2090.03
9039	89.34	315.32	4685.84	3519.48	-1747.27	3724.16	1.25	1898062	2741519	36.21637	-107.771	-2089.16
9133	89.47	314.09	4686.81	3585.6	-1814.07	3818.15	1.32	1898128	2741452	36.21655	-107.771	-2088.19
9227	87.63	314.8	4689.19	3651.4	-1881.16	3912.11	2.1	1898193	2741385	36.21673	-107.771	-2085.81
9321	87.85	314.09	4692.9	3717.17	-1948.21	4006.03	0.79	1898259	2741318	36.21691	-107.772	-2082.1
9416	87.8	313.3	4696.5	3782.75	-2016.85	4100.94	0.83	1898325	2741249	36.21709	-107.772	-2078.5
9510	89.47	315.15	4698.74	3848.29	-2084.19	4194.89	2.65	1898390	2741182	36.21727	-107.772	-2076.26
9605	89.91	314.88	4699.26	3915.48	-2151.34	4289.89	0.54	1898458	2741115	36.21746	-107.772	-2075.74
9699	89.12	312.86	4700.05	3980.62	-2219.1	4383.87	2.31	1898523	2741047	36.21764	-107.772	-2074.95
9794	88.81	312.07	4701.77	4044.75	-2289.17	4478.76	0.89	1898587	2740977	36.21781	-107.773	-2073.23
9890	91.1	314.53	4701.84	4110.58	-2359.03	4574.7	3.5	1898653	2740907	36.21799	-107.773	-2073.16
9984	91.14	313.65	4700.01	4175.97	-2426.53	4668.67	0.94	1898718	2740840	36.21817	-107.773	-2074.99
10078	90.26	316.73	4698.86	4242.64	-2492.76	4762.65	3.41	1898785	2740774	36.21836	-107.773	-2076.14
10172	90.57	316.29	4698.18	4310.84	-2557.45	4856.61	0.57	1898853	2740709	36.21854	-107.774	-2076.82
10267	88.51	316.73	4698.94	4379.75	-2622.83	4951.57	2.22	1898922	2740643	36.21873	-107.774	-2076.06
10362	89.34	316.11	4700.72	4448.56	-2688.31	5046.53	1.09	1898991	2740578	36.21892	-107.774	-2074.28
10456	89.34	315.15	4701.81	4515.75	-2754.04	5140.51	1.02	1899058	2740512	36.21911	-107.774	-2073.19
10550	89.21	314.36	4702.99	4581.92	-2820.78	5234.5	0.85	1899124	2740445	36.21929	-107.775	-2072.01
10644	89.38	314.27	4704.15	4647.59	-2888.03	5328.49	0.2	1899190	2740378	36.21947	-107.775	-2070.85
10739	89.03	312.69	4705.47	4712.95	-2956.96	5423.44	1.7	1899255	2740309	36.21965	-107.775	-2069.53

10834	88.9	314.62	4707.19	4778.51	-3025.68	5518.4	2.04	1899321	2740241	36.21983	-107.775	-2067.81
10928	89.17	314.44	4708.77	4844.43	-3092.68	5612.38	0.35	1899386	2740174	36.22001	-107.775	-2066.23
11023	89.03	311.9	4710.26	4909.41	-3161.95	5707.31	2.68	1899451	2740104	36.22019	-107.776	-2064.74
11117	90.84	316.99	4710.37	4975.21	-3229.03	5801.27	5.75	1899517	2740037	36.22037	-107.776	-2064.63
11211	90.7	316.29	4709.1	5043.54	-3293.57	5895.23	0.76	1899586	2739973	36.22056	-107.776	-2065.9
11305	90.48	315.15	4708.14	5110.83	-3359.19	5989.21	1.24	1899653	2739907	36.22074	-107.776	-2066.86
11400	90.97	314.18	4706.93	5177.61	-3426.75	6084.2	1.14	1899720	2739840	36.22093	-107.777	-2068.07
11494	89.3	315.94	4706.71	5244.14	-3493.14	6178.19	2.58	1899786	2739773	36.22111	-107.777	-2068.29
11589	89.25	315.67	4707.92	5312.25	-3559.36	6273.18	0.29	1899854	2739707	36.2213	-107.777	-2067.08
11683	89.17	314.27	4709.21	5378.67	-3625.86	6367.17	1.49	1899921	2739640	36.22148	-107.777	-2065.79
11777	88.68	316.64	4710.97	5445.65	-3691.78	6461.14	2.57	1899988	2739574	36.22166	-107.777	-2064.03
11871	88.76	315.59	4713.07	5513.38	-3756.92	6555.1	1.12	1900055	2739509	36.22185	-107.778	-2061.93
11965	89.16	314.88	4714.78	5580.11	-3823.11	6649.08	0.87	1900122	2739443	36.22203	-107.778	-2060.22
12059	89.56	313.74	4715.83	5645.77	-3890.37	6743.06	1.29	1900188	2739376	36.22221	-107.778	-2059.17
12153	88.73	317.08	4717.23	5712.69	-3956.34	6837.04	3.66	1900255	2739310	36.2224	-107.778	-2057.77
12247	88.55	315.41	4719.47	5780.57	-4021.33	6930.99	1.79	1900323	2739245	36.22258	-107.779	-2055.53
12342	89.03	315.41	4721.47	5848.21	-4088	7025.96	0.51	1900390	2739178	36.22277	-107.779	-2053.53
12436	89.25	314.36	4722.88	5914.53	-4154.6	7119.95	1.14	1900457	2739112	36.22295	-107.779	-2052.12
12531	89.17	313.3	4724.19	5980.31	-4223.12	7214.92	1.12	1900522	2739043	36.22313	-107.779	-2050.81
12625	89.56	315.76	4725.23	6046.23	-4290.12	7308.9	2.65	1900588	2738976	36.22331	-107.779	-2049.77
12719	89.74	314.71	4725.81	6112.96	-4356.32	7402.9	1.13	1900655	2738910	36.2235	-107.78	-2049.19
12814	89.82	313.74	4726.17	6179.22	-4424.39	7497.89	1.02	1900721	2738842	36.22368	-107.78	-2048.83
12908	89.25	316.29	4726.94	6245.7	-4490.84	7591.88	2.78	1900788	2738775	36.22386	-107.78	-2048.06
13002	89.12	315.32	4728.27	6313.09	-4556.36	7685.86	1.04	1900855	2738710	36.22405	-107.78	-2046.73
13097	88.9	313.39	4729.91	6379.49	-4624.27	7780.83	2.04	1900922	2738642	36.22423	-107.781	-2045.09
13191	89.65	316.73	4731.1	6446.01	-4690.65	7874.81	3.64	1900988	2738576	36.22441	-107.781	-2043.9
13285	90.26	317.52	4731.18	6514.9	-4754.61	7968.75	1.06	1901057	2738512	36.2246	-107.781	-2043.82
13380	90.13	316.2	4730.85	6584.22	-4819.57	8063.69	1.4	1901126	2738447	36.22479	-107.781	-2044.15
13474	90.48	316.03	4730.35	6651.96	-4884.73	8157.67	0.41	1901194	2738382	36.22498	-107.781	-2044.65
13569	90.97	315.32	4729.15	6719.92	-4951.1	8252.66	0.91	1901262	2738315	36.22516	-107.782	-2045.85
13663	91.58	314.71	4727.06	6786.39	-5017.53	8346.63	0.92	1901328	2738249	36.22535	-107.782	-2047.94
13757	88.77	315.32	4726.77	6852.87	-5083.98	8440.62	3.06	1901395	2738182	36.22553	-107.782	-2048.23
13852	89.12	314.97	4728.52	6920.2	-5150.97	8535.61	0.52	1901462	2738115	36.22572	-107.782	-2046.48
13946	89.52	314.36	4729.64	6986.27	-5217.82	8629.6	0.78	1901528	2738048	36.2259	-107.783	-2045.36
14040	88.2	313.92	4731.51	7051.72	-5285.27	8723.57	1.48	1901594	2737981	36.22608	-107.783	-2043.49
14134	88.37	313.74	4734.32	7116.79	-5353.05	8817.5	0.26	1901659	2737913	36.22626	-107.783	-2040.68
14229	90.31	313.39	4735.42	7182.25	-5421.87	8912.46	2.08	1901724	2737844	36.22644	-107.783	-2039.58
14323	89.25	314.97	4735.78	7247.76	-5489.28	9006.45	2.02	1901790	2737777	36.22662	-107.784	-2039.22
14418	89.64	313.92	4736.7	7314.28	-5557.1	9101.44	1.18	1901856	2737709	36.2268	-107.784	-2038.3
14512	90.51	313.74	4736.57	7379.37	-5624.91	9195.42	0.95	1901921	2737641	36.22698	-107.784	-2038.43
14606	91.36	312.6	4735.04	7443.67	-5693.46	9289.36	1.51	1901986	2737573	36.22715	-107.784	-2039.96 Survey @
14661	91.36	312.6	4733.73	7480.89	-5733.93	9344.29	0	1902023	2737532	36.22726	-107.784	-2041.27 330 perp @
14739	91.36	312.6	4731.88	7533.67	-5791.33	9422.2	0	1902076	2737475	36.2274	-107.785	-2043.12 Survey Prc

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB=6747+28 = 6775.00

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from 0.00 E/-W 0.00 N/-S and calculated along an Azimuth of 315.000° (Grid).

Coordinate System is North New Mexico Western ZoneS
Central meridian is -107.833°.
Grid Convergence at Surface is 0.040°.

Geomagnetic model is IGRF2020 Date for magnetic data is 3/3/2022
Declination is 8.73 Dip 62.72 field strength is 49220.89

Based upon Minimum Curv: at a Measured Depth of 14739.00ft.
the Bottom Hole Displacement in the Direction of 315.000° (Grid).



ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY SUITE 525
CENTENNIAL, COLORADO 80111

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

WELL INFORMATION:

Name: W LYBROOK UNIT 726H
API Number: 30-045-38266
AFE Number: DV03015
ER Well Number: NM06441.01
State: New Mexico
County: San Juan
Surface Elevation: 6,748 ft ASL (GL) 6,776 ft ASL (KB)
Surface Location: 23-23N-09W Sec-Twn-Rng 561 ft FSL 636 ft FWL
 36.206696 ° N latitude 107.764938 ° W longitude (NAD 83)
BH Location: 15-23N-09W Sec-Twn-Rng 2,519 ft FNL 237 ft FWL
 36.227304 ° N latitude 107.784339 ° 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 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 for 0.6 miles to fork, Left (West) for 0.7 miles to fork; Right (Northwest) for 0.2 miles onto W Lybrook Unit 726H Pad.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	6,441	335	335	W	normal
	Kirtland	6,336	440	440	W	normal
	Fruitland	6,131	645	645	G, W	sub
	Pictured Cliffs	5,741	1,035	1,035	G, W	sub
	Lewis	5,621	1,155	1,155	G, W	normal
	Chacra	5,361	1,415	1,418	G, W	normal
	Cliff House	4,323	2,453	2,538	G, W	sub
	Menefee	4,308	2,468	2,555	G, W	normal
	Point Lookout	3,334	3,442	3,617	G, W	normal
	Mancos	3,174	3,602	3,791	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,825	3,951	4,173	O,G	sub (~0.38)
	MNCS_B	2,725	4,051	4,282	O,G	sub (~0.38)
	MNCS_C	2,635	4,141	4,378	O,G	sub (~0.38)
	MNCS_Cms	2,595	4,181	4,421	O,G	sub (~0.38)
	MNCS_D	2,465	4,311	4,565	O,G	sub (~0.38)
	MNCS_E	2,334	4,442	4,724	O,G	sub (~0.38)
	MNCS_F	2,274	4,502	4,809	O,G	sub (~0.38)
	MNCS_G	2,193	4,583	4,949	O,G	sub (~0.38)
	MNCS_H	2,158	4,618	5,021	O,G	sub (~0.38)
	MNCS_I	2,111	4,665	5,141	O,G	sub (~0.38)
	FTP TARGET	2,085	4,691	5,320	O,G	sub (~0.38)
	LTP TARGET	2,021	4,755	14,633	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: 2,050 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,010 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 9-5/8" casing to TD; gas detection from drillout of 13-3/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 13-3/8" casing to TD

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 773

Draw Works: Pacific Rim 1500AC

Mast: ADR 1500S Cantilever Triple (142 ft, 800,000 lbs, 12 lines)

Top Drive: Tesco 500-ESI-1350 (500 ton, 1,350 hp)

Prime Movers: 3 - CAT 3512 (1,475 hp)

Pumps: 3 - Gardner-Denver PZ11 (7,500 psi)

BOPE 1: Cameron single gate ram (pipe) & double gate ram (pipe & blind) (13-5/8", 10,000 psi)

BOPE 2: Cameron annular (13-5/8", 5,000 psi)

Choke 3", 10,000 psi

KB-GL (ft): 28

NOTE: A different rig may be used to drill the well depending on rig availability

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 intalled 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 the 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 the 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 for specifics and Newpark's mud program.

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: 17-1/2"

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	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	559	116,634	116,634
Min. S.F.					7.39	4.88	7.31	7.79

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: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

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)
	Type III	14.6	1.39	6.686	0.6946	100%	0	350

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

Drake Energy Services surface cementing blend

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	2,666 ft (MD)	Hole Section Length:	2,316 ft
350 ft (TVD)	to	2,568 ft (TVD)	Casing Required:	2,666 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCI)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

Bit / Motor (Detail): **MOTOR:** NOV 087840 - 7/8, 4.0, stage, 0.16 rev/gal, 1.83 DEG, 900 GPM, 950 DIFF PSIG

BIT: 5- or 6-BLADE PDC w/16 mm or 19 mm cutters, target TFA 0.65 - 1.0 max); 6 - 14s = 0.902 sq-in TFA

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.

Procedure: Drill to TD following directional plan (**20' rat-hole past casing setting depth**). Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible. Take surveys every stand, at a minimum. Target flow-rates of 750 GPM (higher if able to control return rates). Minimum desired flow-rate is 650 GPM. At TD, condition hole and fluid for casing running. TOOH. Run casing using a CRT and washing / circulating as required. Land casing. ND BOPE. Walk rig to next well (**WLU 761H, first 8-1/2" section**). Perform off-line cement job. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Prepare to swap mud systems.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,122	1,157	183,696	183,696

Min. S.F.		1.80	3.04	3.07	2.47
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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: 3,400 Optimum: 4,530 Maximum: 5,660

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface (**FLOAT EQUIPMENT FROM ARSENAL**)

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per jt (floating) to KOP ; 1 centralizer per 2 jts (floating) to surface (**CENTRALIZERS FROM ARSENAL - SLIP'N'SLIDE 9-5/8" x 12" SOLID BODY POLYMER**)

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	511
Tail	Type III	14.6	1.38	6.64	20%	2,166	136

Annular Capacity 0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

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

Drake Energy Services 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.

2,666 ft (MD)	to	14,633 ft (MD)	Hole Section Length:	11,967 ft
2,568 ft (TVD)	to	4,755 ft (TVD)	Casing Required:	14,633 ft

Estimated KOP:	4,248 ft (MD)	4,021 ft (TVD)
Estimated Landing Point (FTP):	5,320 ft (MD)	4,691 ft (TVD)
Estimated Lateral Length:	9,313 ft (MD)	

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	ES	OWR
	OBM	8.7 - 9.0	10 - 15	10 - 20	6 - 10	500+	80:20

Fluids / Solids Notes: Condition mud as needed prior to drilling previous well to bring well into spec. Solids control will continue to burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details.

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

Bit / Motor (Detail): **MOTOR:** NOV 077857 - 7/8, 5.7, stage, 0.23 rev/gal, 2.12 DEG, 750 GPM, 1,580 DIFF PSIG; on demand friction breaking device(s) as required, bottom tool spaced ~3,000' behind the bit.
BIT: 5-BLADE PDC w/16 mm cutters, target TFA = 1.0 - 1.5 sq-in

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.

Procedure: Drill to KOP following directional plan. Target flow-rate is 650 - 700 GPM. Target differential is pressure is 700 - 1,000 psig. Target ROP 500 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10' until KOP, when feasible. Take surveys every stand, at a minimum. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. Continue drilling in lateral section, steering as needed to keep well on plan and in the target window. Keep DLS < 2 deg/100' and keep slide length < 20', when feasible. Take surveys every stand, at a minimum. **Target rotating parameters / performance: flow-rate is 650 - 700 GPM, Target differential is pressure is 700 - 1,000 psig, ROP 500 - 600 ft/hr, torque 38K ft-lbs (MAX drill pipe MUT).** After reaching TD, perform clean-up cycle to condition hole for casing running. Spot lube as required and TOO (ROOH, if required). Run casing as described below. Recommend using a CRT for casing running. Verify make up torque when running casing. Space out casing getting the toe sleeve as close to LTP as possible. Land casing and test pack-off. Open floatation sub, fill casing, and circulate as required. **CANNOT PERFORM CEMENT JOB OFFLINE.** Pump cement as detailed below. Note cement volume circulated to surface.

Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,349	8,945	314,658	314,658
Min. S.F.					3.18	1.19	1.74	1.41

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

MU Torque (ft lbs): Minimum: 3,470 Optimum: 4,620 Maximum: 5,780

Casing Summary: Float shoe, 1 jt casing, float collar w/debris catcher, 1 jt casing, float collar (**WFT float equipment**), 20' marker joint, toe-initiation sleeve (**WFT RD 8,500 psi**), casing to KOP with 20' marker joints spaced evenly in lateral every 2,000', floatation sub (**NCS Air-Lock 4,500 psi from WFT**), casing to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the the azimuth of the well. **Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.**

Centralizers: Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys (**ARSENAL**)

Lateral: 1 centralizer per joint

POE to 9-5/8" shoe: 1 centralizer per joint

9-5/8" shoe to surface: 1 centralizer per 2 joints

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	Type I / II	12.4	2.360	13.40	65%	0	607
Tail	G:POZ blend	13.3	1.560	7.70	10%	3,791	1,751
Annular Capacity	0.2691 cuft/ft	5-1/2" casing x 9-5/8" casing annulus					
	0.2291 cuft/ft	5-1/2" casing x 8-1/2" hole annulus					

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

American Cementing Liner & Production Blend

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 bottom 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.

Procedure: ND BOP. Condition & store OBM. Clean pits. Clean rig. RDMO to next pad (WLU 730H).

COMPLETION AND PRODUCTION PLAN:

Frac: 40 plug-and-perf stages with 280,000 bbls slickwater fluid and 17,000,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

Drilling: 1/20/2022

Completion: 3/11/2022

Production: 4/25/2022

Prepared by: Alec Bridge 2/17/2020

Updated by: Alec Bridge 3/12/2020 - updated AFE information with 2020 costs

Alec Bridge 12/6/2021 - updated AFE information with 2021 costs

Alec Bridge 1/28/2022 - updated drilling prog w/final geo-prog, final well plan, and operational notes

WELL NAME: W LYBROOK UNIT 726H**OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation****API Number:** 30-045-38266**AFE Number:** DV03015**ER Well Number:** NM06441.01**State:** New Mexico**County:** San Juan**Surface Elev.:** 6,748 ft ASL (GL) 6,776 ft ASL (KB)**Surface Location:** 23-23N-09W Sec-Twn- Rng 561 ft FSL 636 ft FWL**BH Location:** 15-23N-09W Sec-Twn- Rng 2519 ft FNL 237 ft FWL**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 for 0.6 miles to fork, Left (West) for 0.7 miles to fork; Right (Northwest) for 0.2 miles onto W Lybrook Unit 726H Pad.

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,666 ft
KOP (MD)	4,248 ft
KOP (TVD)	4,021 ft
Target (TVD)	4,691 ft
Curve BUR	10 °/100 ft
POE (MD)	5,320 ft
TD (MD)	14,633 ft
Lat Len (ft)	9,313 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	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,666	9.625	36.0	J-55	LTC	0	2,666
Production	8.500	14,633	5.500	17.0	P-110	LTC	0	14,633

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Type III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	511
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,166	136
Prod. (Lead)	Type I / II	12.4	2.360	13.4	0.2691	65%	0	607
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,791	1,751

COMPLETION / PRODUCTION SUMMARY:**Frac:** 40 plug-and-perf stages with 280,000 bbls slickwater fluid and 17,000,000 lbs of proppant (estimated)**Flowback:** Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)**Production:** Produce through production tubing via gas-lift into permanent production and storage facilities

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	335	335
Kirtland	440	440
Fruitland	645	645
Pictured Cliffs	1,035	1,035
Lewis	1,155	1,155
Chacra	1,415	1,418
Cliff House	2,453	2,538
Menefee	2,468	2,555
Point Lookout	3,442	3,617
Mancos	3,602	3,791
Gallup (MNCS_A)	3,951	4,173
MNCS_B	4,051	4,282
MNCS_C	4,141	4,378
MNCS_Cms	4,181	4,421
MNCS_D	4,311	4,565
MNCS_E	4,442	4,724
MNCS_F	4,502	4,809
MNCS_G	4,583	4,949
MNCS_H	4,618	5,021
MNCS_I	4,665	5,141
FTP TARGET	4,691	5,320
LTP TARGET	4,755	14,633

This document will be submitted with the completion package after the well has been completed.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

ACKNOWLEDGMENTS

Action 101006

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 101006
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 101006

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 101006
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 7/26/2022	10/24/2022