Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

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

HOBBS OCD JUL 26 2018 RECEIVED
HOBBS OCD JUL 30 2018 RECEIVED

Form C-103
May 27, 2004

WELL API NO. 30-015-38519	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name Long Branch
1. Type of Well: Oil Well ☒ Gas Well ☐ Other	8. Well Number 2
2. Name of Operator Marathon Permian, LLC	9. OGRID Number 372098
3. Address of Operator 5555 San Felipe Houston, TX 77056	10. Pool name or Wildcat Glorieta Yes
4. Well Location 330 Unit Letter C :300 feet from the N line and 2310 feet from the W Section 7 Township 195 Range 26E NMPM County Eddy	
	11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3372' GL
Pit or Below-grade Tank Application ☐ or Closure ☐ Pit type Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water Pit Liner Thickness: mil Below-Grade Tank: Volume bbls; Construction Material	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			OTHER:	☐		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. Not. to NMOCD 24 hrs before MIRU

1 CIBP
1. 25 sx at 2,742' – 2,642' tag (across liner top)
2. 25 sx at 1,055' – 955' tag
3. Perf at 100'. Cement to surface with 30 sx. Verify Install D.H.M.

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 27 2018
RECEIVED

*See Attached COA's

P&A mud between plugs, closed loop all fluids to licensed facility.

Must be Plugged by 7-30-19

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE _____ TITLE Agent DATE 07-25-18

Type or print name Brody Pinkerton E-mail address: Telephone No. 432-458-3780

For State Use Only

APPROVED BY: _____ TITLE Staff Mgr. DATE 7-30-18

Conditions of Approval (if any):

Marathon Oil

Wellbore Schematic

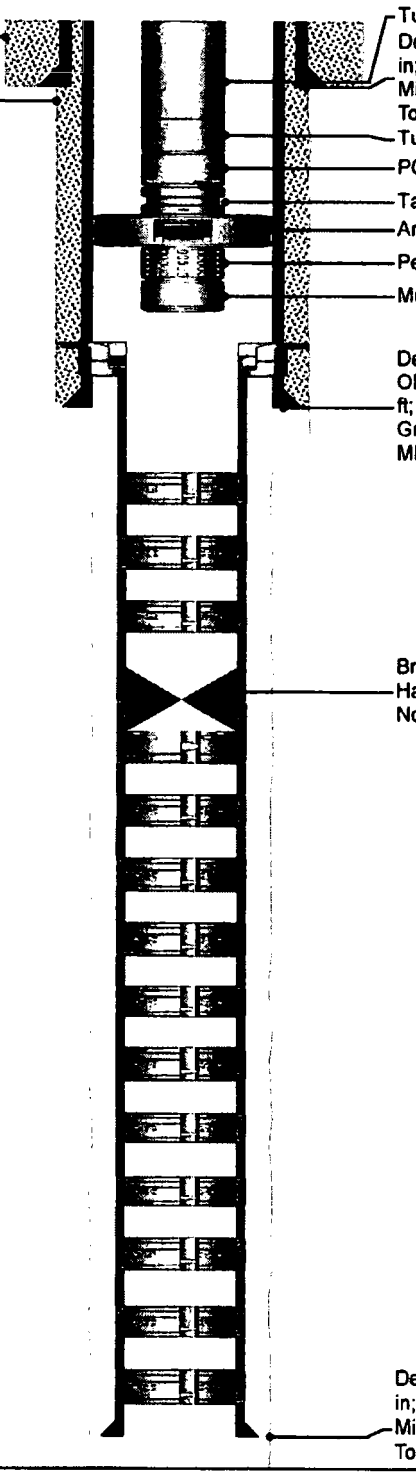
Well Name: LONG BRANCH 2H

State/Province	Prospect Area	Field Name	Well Subtype	Lat/Long Datum	Latitude (°)	Longitude (°)
NEW MEXICO		UNNAMED	OIL WELL	NAD27	32.681370	-104.421635

Well Configuration Type	Well Objective	Well Status	Ground Elevation (ft)	KB-Ground Distance (ft)
		PRODUCING	3,372.00	

LONG BRANCH 2H, 7/24/2018 3:42:12 PM

MD (ftKB)	Vertical schematic (actual)
0.0	Des:Surface Casing Cement; Category:Cement; Top MD:0.0 ftKB; Btm MD:1,005.0 ftKB; Com:600 sx (Circ 93 sx to surf)
1,004.9	
1,995.7	Des:Production Casing Cement; Category:Cement; Top MD:0.0 ftKB; Btm MD:2,915.0 ftKB; Com:300 sx (Circ 84 sx to surf)
2,034.1	
2,041.0	
2,682.1	
2,915.0	
3,065.9	
3,311.0	
3,512.1	
3,711.9	
3,714.9	
3,916.0	
4,116.1	
4,316.9	
4,519.0	
4,721.1	
4,922.9	
5,382.9	
5,578.1	
5,777.9	
6,038.1	
6,148.9	



Tubing; 2.875
Des:Surface; Category:Casing; OD:8.625 in; ID:7.825 in; Length:1,005.00 ft; ID Min:7.700 in; Wt.:36.00 lb/ft; Grade:J55; Top MD:0.0 ftKB; Btm MD:1,005.0 ftKB
Tubing; 2.875
PCP Stator; 2.875
Tag Bar; 2.875
Anchor/catcher; 6.276
Perforated Joint; 2.875
Mud Jt w/ Bull Plug; 2.875
Des:Production 1; Category:Casing; OD:7.000 in; ID:6.276 in; Length:2,915.00 ft; ID Min:6.151 in; Wt.:26.00 lb/ft; Grade:L80; Top MD:0.0 ftKB; Btm MD:2,915.0 ftKB
Bridge plug - retrievable; 3,715.0; Halliburton plug had pre-set at 3712' MD. No record of removing plug.
Des:Liner 1; Category:Casing; OD:4.500 in; ID:3.920 in; Length:3,467.00 ft; ID Min:3.795 in; Wt.:13.50 lb/ft; Grade:L80; Top MD:2,682.0 ftKB; Btm MD:6,149.0

Directions to Well:

Prior to P+A

Report Printed: 7/24/2018

Marathon Oil

Wellbore Schematic

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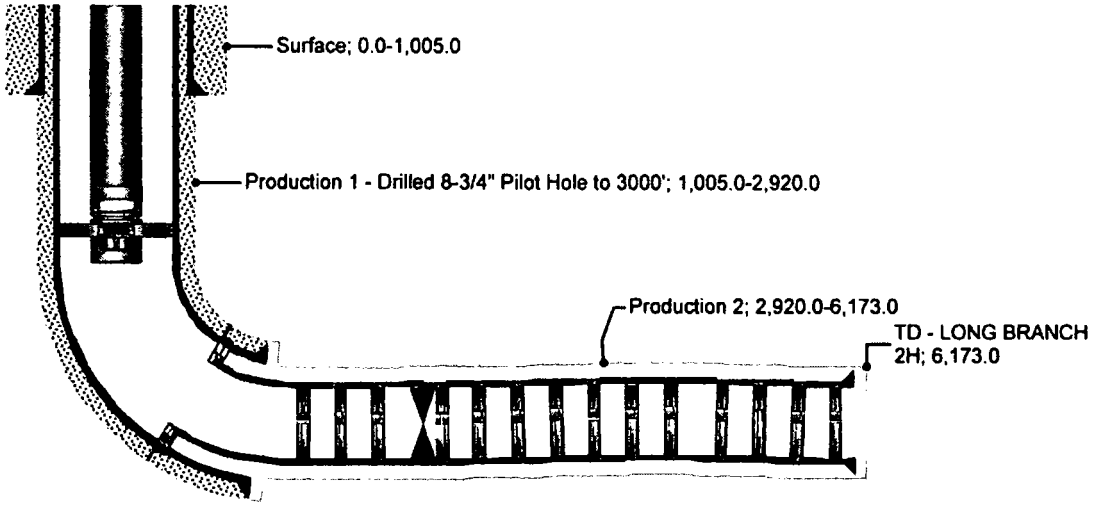
LONG BRANCH 2H, 7/24/2018 3:42:12 PM



Directional schematic (actual)	MD (ftKB)	TVD (ftKB)	Incl (°)
	500	500	0.0
	1,000	1,000	0.0
	1,500	1,500	0.0
	2,000	2,000	0.0
	2,500	2,463	40.9
	3,000	2,664	86.7
	3,500	2,663	90.7
	4,000	2,660	90.3
	4,500	2,646	91.2
	5,000	2,643	90.3
	5,500	2,649	88.6
	6,000	2,664	89.5

Directions to Well:

Report Printed: 7/24/2018

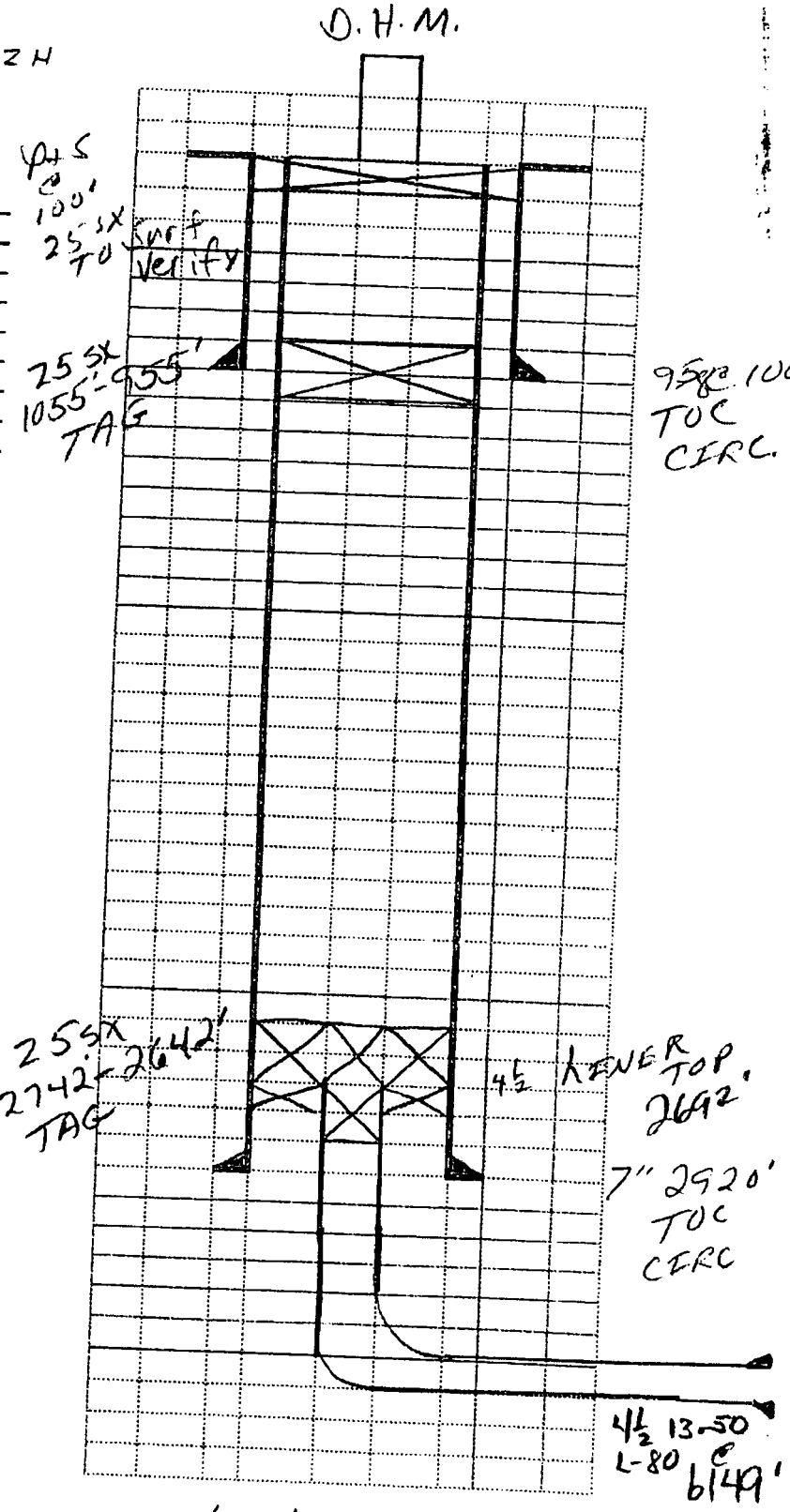
MWP LLC

MARATHON Permian LLC
WELL# LONG BRANCH # 2H

TUBING DETAIL
R.C.

ROD DETAIL

PERFS: SPF



TD: 6173' PBTD: 6140'

AFTER P & A

CONDITIONS FOR PLUGGING AND ABANDONMENT

District II / Artesia N.M.

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If the well is not plugged within 1
7. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
8. **Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.**
9. Produced water **will not** be used during any part of the plugging operation.
10. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
11. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
12. **Class 'C' cement will be used above 7500 feet.**
13. **Class 'H' cement will be used below 7500 feet.**
14. **A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged**
15. **All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing**

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. **A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag**.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, **(WOC 4 hrs and tag).**
19. No more than **3000' is allowed between cement plugs in cased hole and 2000' in open hole.**
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
    A) Fusselman
    B) Devonian
    C) Morrow
    D) Wolfcamp
    E) Bone Springs
    F) Delaware
    G) Any salt sections
    H) Abo
    I) Glorieta
    J) Yates.
    K) **Potash**--- (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, **WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.**
21. **If cement does not exist behind casing strings at recommended formation depths,** the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

DRY HOLE MARKER REQUIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3.API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date 8. County (SPECIAL CASES)-------AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)