

FIELD

OPERATOR HYTECH

FARM

STATE 34

WELL #1

LOCATION 660 FSL & 1980 FWL of Sec 34, T14S, R32E, Lea Co., NM

ELEV 4303' GL

SPUD 12-15-77

COMP

TD 9925'

PB 9863'

CSG 13-3/8", 48#, H-40, STC (new)

set @ 406'

8-5/8", 24#, 32#, K55, STC, 8R

set @ 4035' 5½" 17# N80/

K55 set @ 9925'

PROD FMT, PERFS, TREATMENT & IP

Perf: 9830'-9835' (Bough "B" zone)

Acidized w/750 gal. 15% HCl

TCPs

DEPTH

DATUM

CORRELATES WITH

DATE _____

STATUS

12-14-77	FIRST REPORT: Location was staked 11/4/77 by John West, 660 FSL & 1980
	FWL of Sec 34, T14S, R32E, Lea Co., NM. Elev-4303' GL. Prep to MICT
12-15-77	Prep to MICT

12-15-77 Prep to MLCT.

12-16-77	MI & RUCT, Abbott Bros.	Spud 6" pilot hole @ 12 noon, 12/15/77.	Drilled
	to 30' & SDON.	CT-1 Day	

12-17-77 Ream 6" hle to 12" to 30'. CT-2 Days

12-18-77	Ream 12" hole to 16" to 30'	CT-3 Days
12-19-77	SPAC	

12-19-77 SDOS

12-20-77	Reaming 18" hole to 30'.	CT-4 Days
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12-21-77 Reamed 18" hole to 24". Set 1 jt of 20" conductor csg @ 30'. MOCT, WORT.
Will drop from report pending further activity.

12-22-77	WORT
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1-6-78 RESUMED OPERATIONS: MIRT, Hondo Rig #5

1-7-78 TD-406', WOC: RIIRT-Resumed drlg. oper. @ 3 p.m., 1/6/78 @ 30' / Drilling

17 1/2" hole to 406' in Redbed (30' pent.).	RTD @ 6 p.m. Circ & POH. ST-
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1/4" @ 406'. Ran 12 jts of 13 3/8", 48#, H40, STC (new) csg set @ 406'.

REMARKS

OIL CONSERVATION COMM.

WELL

OPERATOR

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STATUS

DATE

1-8-78	est 100 sx excess. WOC & nipple up. Drilling 2035' in salt. 1629'/20% hrs. MW-9.2#, Vls-30. St-10 @ 800' 3/40 @ 1392, 3/40 @ 1770'. WOC 12 hrs. Press test 13 3/8" csq. to 1000#-OK. Start drlg. ahead w/12% bit.
1-9-78	Drilling 2970' in time w/salt stringers. 935'/124 hrs. St-10 @ 2135', 1/2 @ 2490, 3/40 @ 2970'. TFNB @ 2462'. MW 10#, Vls-30. DR-3
1-10-78	TD-3570' in Lm. Made 600' progress. ST - 1/2 @ 3156'. No mud. Vls - 30, MW - 9.9. Trip @ 3156'.
1-11-78	Drilling @ 3955' in Lm. & dolomite. Made 385' in 24 hrs. MW - 10#. Vls - 30: TFNB @ 3653', #5 - OMV - 302'/15 3/4 hrs. Add 5 sx paper. Water hauled - 10,360 bbls @ \$5.180. Rate - 12 fph ST - 3/4 degree @ 3653'. KB to GL = 11', KB-BHF = 12.5'. DR - 5.
1-12-78	TD - 4035', WOC: Drilled to 4035' in time & Dolo. RID @ 4 p.m. 1-11-78. Had TFNB @ 3979', ST-3/40. Ran Drilling fluid cal. - 3100 ft3. MW-10#. Vls-30. Last 5-10 mpt. Circ 1 1/2 hr & POH. Ran 100 jts. 4046' of 8-5/8" OD 24#, (51 jts-2029' on top) & 32# (49 jts-2017' on bottom), K55, STC, 8R. R3 csq set @ 4035' after WTB-40', used guide shoe, IFV, & 3 cent. Circ 45 min & cmt by BJ w/950 sx "C" w/3% A2 plus 250 sx "C" w/2% CC. Had good circ. PD @ 4:45 a.m. 1/12/78. Cmt did not circ. Set slips, cut off & N.V. Prep to run temp survey.
1-13-78	Drilling @ 4285' in Lm & Dolo. 250'/9% hrs. Drilling w/FW. PH-10: Ran temp survey - 10C @ 1600'. WOC 18 hrs. Press test csq to 1400# - OK. Drilled out cmt & start drilling ahead. Bit #7 - Reed FP63 (RR) in #C35' - 250'/9% hrs. CW-84 loads. DR-7 Days.
1-14-78	Drilling @ 4705' in Dolo. 420'/124 hrs. ST-3/40 @ 4504'. Bit #7 - 613' 32% hrs. MW-8.5#FW, PH-9.5, 90 loads wtr. DR-8 Days
1-15-78	Drilling @ 5378' in Dolo. 632'/2124 hrs. ST-10 @ 4997'. Bit #7 - 1302' 55-3/4 hrs. MW-8.6#FW, PH-10. 92 lds wtr. DR-9 Days
1-16-78	Drilling @ 5766' in Dolo. 426'/124 hrs. ST-10 @ 5410'. Bit #7 - out @ 5410', 1375'/59-3/4 hrs. Bit #8, J55. In - 356'/17 hrs. MW-8.6#FW, PH-10. 97 loads wtr. DR-10 Days
1-17-78	Drilling @ 6230' in Lm & Dolo. 464'/124 hrs. MW-8.5#FW, PH-11, some seepage, adding paper. CLW-103. Bit #8 - 840'/40-3/4 hrs. ST-10 @ 5898'. DR-11 Days
1-18-78	Drilling @ 6690' in Lm & Dolo. Made 460'/124 hrs. ST-6280' @ 3/40. Bit #8, J55, 1300' in 6 1/2 hrs. Dr w/wtr. 8.5#, PH/11. Hauled 4 lds wtr. DR-12 Days
1-19-78	Drilling @ 7115' in Lm. Made 425'/124 hrs. ST-3/40 @ 6998'. Bit #8 - 1705'/78% hrs. MW-8.5#FW, PH-10, 2 lds wtr. TLM-109. DR-13 Days
1-20-78	Drilling @ 7545' in Lm w/small amt of shale. Made 430'/124 hrs. MW-8.5#FW, PH-11. ST-10 @ 7517'. Bit #8 - 2135'/111-3/4 hrs. % LW (TW-114). DR-14 Days
1-21-78	Drilling @ 7988' in Lm & Sh. Made 443'/124 hrs. Bit #8 - 2578'/135-3/4 hrs. MW-8.6#FW, PH-11. 4 LW/TW-118. DR-15 Days
1-22-78	Drilling @ 8266' in Lm & Sh. Made 278'/124 hrs. MW-8.6#FW, PH-10, 3LW/TW-121. ST-10 @ 8008'. Bit #8 out - 2598'/137 hrs. Bit #9, J55 in - 258'/18 hrs. No drag - 14' fill on trip. DR-16 Days
1-23-78	Drilling @ 8710' in Lm & Sh. Made 444'/124 hrs. ST-10 @ 8530'. Bit #9 - 702'/42 hrs. MW-8.6#FW, PH-11, 3LW/TW-124. DR-17 Days
1-24-78	Drilling @ 9112' in Lm & Dolo. Made 402'/124 hrs. ST-10 @ 9016'. Bit #9 - 1104'/66 hrs. MW-8.6#FW, PH-11, 5 LW. DR-18 Days
1-25-78	Drilling @ 9522', 410'/124 hrs. in time. ST-10 @ 9492'. Bit #9 - 1514'/90 hrs. MW-8.6#FW, PH-11, 4LW/TW-133. DR-19 Days

DATE	STATUS
2-3-78	TD - 9925' - Prep to run csg: RIH w/DST straddle tools (Hall). Ran DST #5 in Bough "B" zone 9827'-45'. Open tool for 30" pre-flow w/SAB timed. Had 7# thru 30" THC in 5 min. Inc to 25# after 30". GTS in 27 min. Took 60 min ISI & opened for FF thru 30" THC for 90 min. Press inc from 6# in 5" to 18.5# in 75" & stab. SI for 120". Unseated pkrs and reversed out fluid. In DP, rec 15 BO & 2 BW. POH, had 90' wtr above CIP valve. Rec 1.2 ft ³ gas. 650 cc wtr (68000 ppm Cl) & 450 cc oil (36.90 @ 600F) @ 1500# in sampler. Chlorides in circ sp1 - 60,000 ppm. Bit-6000ppm. Press from top gauge @ 9800': IHP-4592#, IF-114 to 228#, ISIP-2592#, FF-228 to 501, FSIP-2419# FHP-4592#. RIH to TD w/bit. circ-W00 DR-28 Days
2-4-78	TD - 9925' WOC: Circ 4 hrs & POH, LDPP. Ran 248 jts of 5% OD. 17#. N80 & K55 (new) csg set @ 9925'. Cmt by BJ w/350 sx class "H" cont 4#/salt. 0.8% D-19 (FLA), 0.1% R-5 retarder & 1/4" FC: Tail inw/100 sx Cl "H" neat. PD @ 1:30 a.m., 2/4/78. Good circ 1/0 job. RR @ 6 a.m., 2/4/78. DR-29 Dys
2-5-78	WOC - Ran temp survey - TOC @ 6800'. Tagged up @ 9878'. Prep to MORT
2-7-78	MORT
2-8-78	WOCU.
2-9-78	WOCU.
2-10-78	WOCU.
2-11-78	WOCU.
2-12-78	WOCU.
2-13-78	WOCU. CMC - \$349,000.
2-14-78	Prep to MICU. Press test csg to 3000# for 11 min - ok.
2-15-78	MICU-55 well serv. CRC West ran GR/CCL & perf 5% csg w/4" csg gun. 5shots from 9830-35' in Bough "B" zone. CR - 1/\$4300.
2-16-78	RIH w/2-3/8", 4.7#, N80, EUE, 8R tbg w/Baker Mod R pkr. 2 jts tailpipe below pkr. Spotted 1 bbl 15% HCl acid over perfs. Set pkr @ 9694', btm of tbg @ 9755' & SN @ 9684'. Press up to 2800# & fm appeared to take fluid. Start acid & pkr failed. Drop SV & press test tbg - 3000#-ok. Rev out acid. Prep to POH. SION. CR-2/\$5000.
2-17-78	PBID - 9863': POH w/tbg & pkr. Chnged pkr to RTS & RIH. Set pkr @ 9746'. Acidized dwn tbg by West. w/750 gal, 15% HCl, MTP-4000#, IR (max)-1.1 bpm, ISDP-3700#, 5"-1800#, 10"-1200#, 15"-900#, 30-vac. LTR-65 bbl, swabbed 2 hrs, rec 34 BLW (-31), FLC-8000'FS. SION. CR-3/\$8400.
2-18-78	After SION, TP-250#. Blew dwn & ran swab, FL @ 3000'FS. Swabbed 6 hrs, rec 90 BTF (26 BO & 64 BW). All loads rec. L2 hrs, swabbed 5 BO & 7 BWPH w/SG. FL @ 7000', swabbed from SN @ 9746'. CR-4/\$9400
2-19-78	After SI 16 hrs, TP-375#. Blew dwn in 5 min. Ran swab, FL @ 3000'FS. Swabbed 3 hrs, rec 40 BTF, est 16 BO & 24 BW. Last hr rec 12 BTF (60% wtr) w/SG. Pulled swab from SN @ 9746', est FL @ 7000'FS. SION. Chlorides from sp1 taken 2/17/78 - 69,000 ppm. CR-5/\$9900.
2-20-78	SDOS
2-21-78	After SION, TP-400#. Blew dwn & ran swab, FL @ 4000'FS. Swabbed 7 hrs, rec est 32 BO & 46 BW w/SG. L2 hrs, swabbed 11 BTF/Hr. (5 BO & 6 BWPH). Swabed from SN @ 9746'. FL scattered from 7000'-8000'FS. Chlorides from swab sp1 - 70,000 ppm. CR-6/\$10,800
2-22-78	After SION, TP-375#. Blew dwn & ran swab, FL @ 4000'FS. Swabbed 1 hr, rec 8 BO & 3BW w/SG. Unseat pkr & POH w/tbg & pkr. RIH w/315 jts. 9837' of 4.7#, N80, EUE, 8R tbg set @ 9863', 14' slotted MA (slots @ 9851' - 53'), SN @ 9848', TAC @ 9814'-17' w/10,000# tension, shut well in. RD 8 MOCU. WILL DROP FROM REPORT PENDING INSTALLATION OF PROD EQUIP. CR-7/\$11700

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1-26-78	Drilling @ 9788', mde 266'/L24 hrs. Bit #9-1780'/111 hrs. MW-8.6#, Vis-33, WL-18, pH-11, 2LW/TW-135. Mix 136 sx gel, 3 caustic, 10 soda ash, 10 CMC. DR-20 Days																																				
1-27-78	TD - 9808' in lm, prep to drill ahead. Drilled to 9808', had good drlg break 9778'-88', broke 6 to 1-1½ mpf w/show & flr in spls. Circ 2 hrs & POH. MW-8.5#, Vis-35, WL-18, pH-11. ST-3/4" @ 9808'. Strapped 2' deep to TD, no corr. RIH w/Hall DST tools. Set lower pkr @ 9754', top pkr @ 9744'. 54' anchor. DST #1: Bough "A" zone 9754'-9808': preflow 30" w/GB inc to SB, SI 60", final flow-60 min, GB inc to SB, SI 2 hrs. POH w/test tools. Rec 4371' DM w/trace oil @ top of rec wtr. Chlorides in rec wtr: Top-18,500, Mid-5500, Bottom-18,000, Pit-24,000. Field chart press: HP-4611#/4588', IFP-243 to 818#, ISIP-3013#, FF-889-2118#, FSIP-3018#. BHT-160°F (est.). Sampler - 25# rec 2000cc of DM, 18,500 ppm Cl. All Cl anal from Hall lab in Hobbs. Chlorides from offset Phillips H.T. - 40,000 ppm.																																				
1-28-78	Run ning logs @ RTD 9875'.																																				
1-29-78	Compl running Dresser GR/SWN, dual induction & minilog to LTD 9877'. WIH & circ 3 hrs, POH to run DST #2. Ran DST tools w/packers @ 9765' & 9775' to test 9775'-9877'. Prep to open tools @ 9 a.m.																																				
1-30-78	Ran DST #2 as follows: Opened tools w/fair blow, inc to strong, press 4# in 2", 8# in 5", 10# in 10", 15# in 15", stabilized @ 20# in 20". Installed 18/64" Ck. Closed tool in 30". GTS immed after closing tools. Maintained 3-4' flare during 60" ISI. Opened tool on 18/64" Ck @ ½#, dec to ¼# in 20" & o# in 30". Opened wide for remain 60". FSI 180". No change in 3-4' flare throughout FF & FSI period. No mud added to backside during test. POH w/tools. Rec 6714' gas in DP, 180' GGM, 820' SO & GCM & 2051' water.																																				
	<table><tr><td></td><td>TOP</td><td>MIDDLE</td><td>BOTTOM</td></tr><tr><td>IHP</td><td>4650</td><td>4672</td><td>4657</td></tr><tr><td>IFP</td><td>347</td><td>393</td><td>397</td></tr><tr><td>30"FFP</td><td>608</td><td>612</td><td>607</td></tr><tr><td>60"ISIP</td><td>2925</td><td>2932</td><td>2926</td></tr><tr><td>IFP</td><td>652</td><td>722</td><td>724</td></tr><tr><td>90"FFP</td><td>1284</td><td>1356</td><td>1352</td></tr><tr><td>180"FSIP</td><td>2925</td><td>2910</td><td>2903</td></tr><tr><td>FHP</td><td>4555</td><td>4473</td><td>4588</td></tr></table>		TOP	MIDDLE	BOTTOM	IHP	4650	4672	4657	IFP	347	393	397	30"FFP	608	612	607	60"ISIP	2925	2932	2926	IFP	652	722	724	90"FFP	1284	1356	1352	180"FSIP	2925	2910	2903	FHP	4555	4473	4588
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	PREP TO DRILL AHEAD																																				
1-31-78	TD - 9925'. Prep to run DST #3 in Bough "C" zone. 9850'-9925'. Drilled to 9925' in Lime. Had drilling break 9889'-9903'. Circ & cond hole 3 hrs. POH & P.U. Hall test tools & start RIH. MW-8.9#, Vis-44, WL-9, MC-1/32", Cl-6200 ppm. DR-25 Days																																				
2-1-78	TD - 9925', Prep to run DST #4: FIH w/DST tools, set pkrs @ 9842' & 9850' for DST #3 in Bough "C" zone 9850'-9925'. Opened tool for 30 min pre-flow WAB/TO, SI 60 min, took 60" final flow- WAB/TO, SI 120". POH, rec 180' DM & 564' of wtr (bad odor), no shows. Pressure: HP-4727#/4727#, IF-91#-273#, ISIP-3091#, FF-273#-410#, FSIP-2909#, BHT-153°F. RIH w/DP to TD, circ 3 hrs & POH. PU test tools. MW-8.8#, Vis-41, WL-12, pH-11. DR-26 Days																																				
2-2-78	TD-9925'. RIH w/Hall DST straddle tools. Set pkr - top duals @ 9811' & 9817', bottom duals @ 9837' & 9843', no fill. Attempt DST #4 9817' & 9837'. Opened tools & pkrs, failed after 5". POH after jarring pkrs free. Rec 2139' Gas & 930' SGCDM, sampler had 40# & rec 1300 cc DM. RIH w/bit to TD, no fill, circ 3 hrs & POH for DST #5. MW-8.8#, Vis-37, WL-12.2, pH-11, Cl-5800 DR-27 Days																																				

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WELL#1

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersees Old C-104 and C-11
Effective 1-1-65

I. Operator
Hytech Energy Corporation
Address
400 Wilco Building, Midland Texas 79701
Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain):
Casinghead Gas MUST NOT BE
PRODUCED UNLESS AN EXCEPTION TO N-9070
IS OBTAINED.

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name State 34	Well No. 1	Pool Name, including Formation Tulok Penn	Kind of Lease State, Federal or Fee State	Lease No.
Location Unit Letter N 660 Feet From The South Line and 1980 Feet From The West Line of Section 34 Township 14-S Range 32-E, NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ The Permian Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1183, Houston, Texas 77001			
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ Warren Petroleum Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1589, Tulsa, Oklahoma 74101			
If well produces oil or liquids, give location of tanks.	Unit N	Sec. 34	Twp. 14-S	Rge. 32-E
	Is gas actually connected?		When	
	No		Approx 3-30-78	

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☒	Gas Well ☐	New Well ☒	Workover ☐	Deepen ☐	Plug Back ☐	Same Res'v. ☐	Diff. Res'v. ☐
Date Spudded 1-6-78	Date Compl. Ready to Prod. 3-10-78		Total Depth 9925		P.B.T.D. 9878			
Elevations (DF, RKB, RT, GR, etc.) 4303 GL	Name of Producing Formation Tulok Penn		Top Oil Pay 9830		Tubing Depth 9863			
Perforations 9830-9835					Depth Casing Shoe			

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17 1/2	13 3/8" csg	406	425
12 1/4	8 5/8" csg	4035	1200
7 7/8	5 1/2" csg	9925	450

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 2-11-78	Date of Test 3-27-78	Producing Method (Flow, pump, gas lift, etc.) Pump	
Length of Test 24 hrs	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test 3-27-78	Oil - Bbls. 30	Water - Bbls. 20	Gas - MCF 55

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

J. E. Scroggins
(Signature)
Senior Production Clerk
(Title)
3-27-78
(Date)

OIL CONSERVATION COMMISSION

APPROVED APR 3 1978, 19
BY [Signature]
TITLE SUPERVISOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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